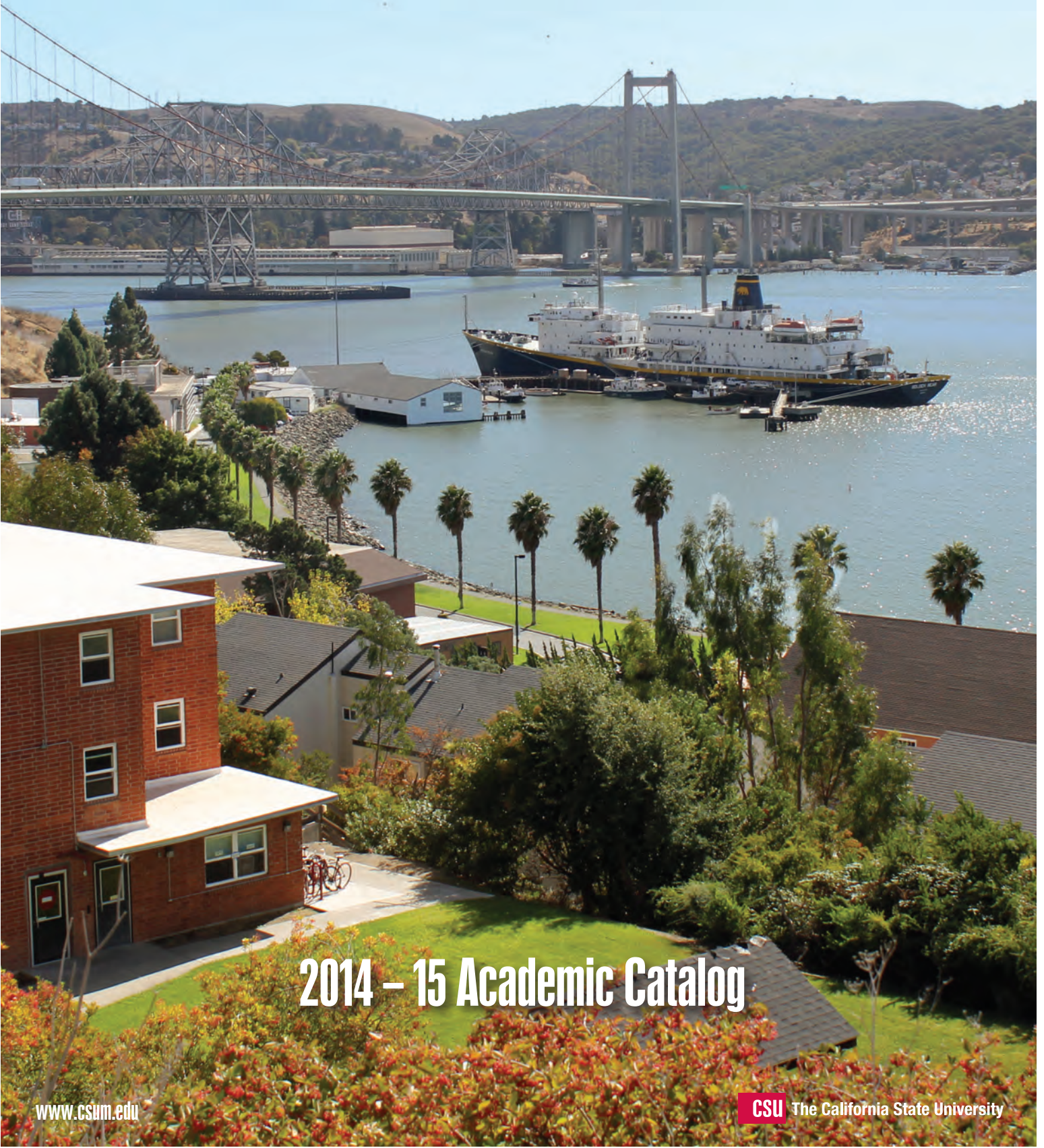




CAL MARITIME



2014 – 15 Academic Catalog

THE CALIFORNIA MARITIME ACADEMY 2014-2015 ACADEMIC CALENDAR

FALL 2014 SEMESTER		SPRING 2015 SEMESTER	
Fall 2014 Semester	Important Events	Spring 2015 Semester	Important Events
August 26	Academic Year Begins	January 2	Spring Semester Begins
August 27	Residence Halls Check-In: New Students	January 2, 5, 6, 7	U.S. Coast Guard Examinations
August 28 – September 1	Orientation Period	January 3	Residence Halls Re-Open: First Year Students
August 31 – September 1	Residence Halls Check-In: Returning Students	January 4	Residence Halls Re-Open: Returning Students
September 1	Labor Day Holiday (University Closed)	January 5	Instruction Begins, Spring Semester
September 2	Instruction begins, Fall Semester	January 16	Last Day to Add/Drop a Course
September 16	Last Day to Add/Drop a Course	January 19	Martin Luther King, Jr. Holiday (University Closed)
September 29	Census Date (20th Day of Instruction)	January 20-23	Summer Term 2015 Registration
October 12	Day on the Bay	February 2	Census Date (20th Day of Instruction)
October 14	Last Day to Remove Incomplete Grades	February 13	Last Day to Remove Incomplete Grades
October 15	Graduation Writing Exam (GWE)	February 18	Graduation Writing Exam (GWE)
October 20-31	Advisement for the Spring Semester	March 9-20	Advisement for Fall Semester
November 3-17	Registration for Spring Semester	March 11	60% Point of the Semester
November 5	60% Point of the Semester	March 14	Dockside Steaming
November 11	Veterans Day Holiday (University closed)	March 23 – April 3	Registration for Fall Semester (continuing students)
November 27-28	Thanksgiving Holiday Recess (University closed)	March 30	Spring Pause Day (Non-Instructional Day/Faculty Work Day)
December 12	Last Day of Fall Instruction	March 31	Cesar Chavez Day Holiday (University closed)
December 15-18	Final Examination Period	April 17	Last Day of Instruction
December 19 @ 10am	Residence Halls Close for Winter Break	April 20-23	Final Exam Period
December 22 @ noon	Deadline for Faculty to Enter Their Grades in PeopleSoft	April 24 @ 10am	Residence Halls Close (except for graduating seniors)
December 23 – January 1, 2015	Winter Recess - Faculty and Staff	April 24 @ Noon	Grades Due (Faculty must enter grades in PeopleSoft)
		April 25	Commencement
		May 4	Academic Year Ends

Note: Calendar dates are subject to change; refer to the online version for current information.

Approved by President Tom Cropper, 12/17/2013.
Academic Calendar Committee, Updated, 04/07/2014

THE CALIFORNIA MARITIME ACADEMY 2014-2015 ACADEMIC CALENDAR

SUMMER TERM SEMESTER	
Summer 2015 Semester	Important Events
April 26	1st Cruise Period Begins
June 26	1st Cruise Ends
June 26	2nd Cruise Begins
August 26	2nd Cruise Ends
September 4	Grades Due (Faculty must enter grades in PeopleSoft)

Note: Calendar dates are subject to change; refer to the online version for current information.

Approved by President Tom Cropper, 12/17/2013.
Academic Calendar Committee, Updated, 04/07/2014

The California Maritime Academy
200 Maritime Academy Drive, Vallejo, CA 94590-8181
707-654-1000 | 707-654-1001 fax | www.csum.edu

USEFUL PHONE NUMBERS

All numbers are in Area Code 707. For life-threatening emergencies, call 911.

Campus Emergency	654-1111
Campus Police Non-Emergency	654-1176
Campus Main Line.....	654-1000
President	654-1011
Provost and Vice President, Academic Affairs	654-1040
Vice President, Student Affairs	654-1040
Vice President, Administration and Finance	654-1032
Vice President, Advancement.....	654-1246
Dean, Academic Affairs	654-1018
Dean, Student Affairs.....	654-1190
Dean, Student Development	654-1070
Dean, Sponsored Projects and Extended Learning	654-1271
Admissions	654-1330
Athletics.....	654-1050
Audiovisual.....	654-1249
Bookstore	654-1186
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Career Development	654-1071
Cashier.....	654-1031
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Coast Guard.....	654-1722
Commandant.....	654-1211
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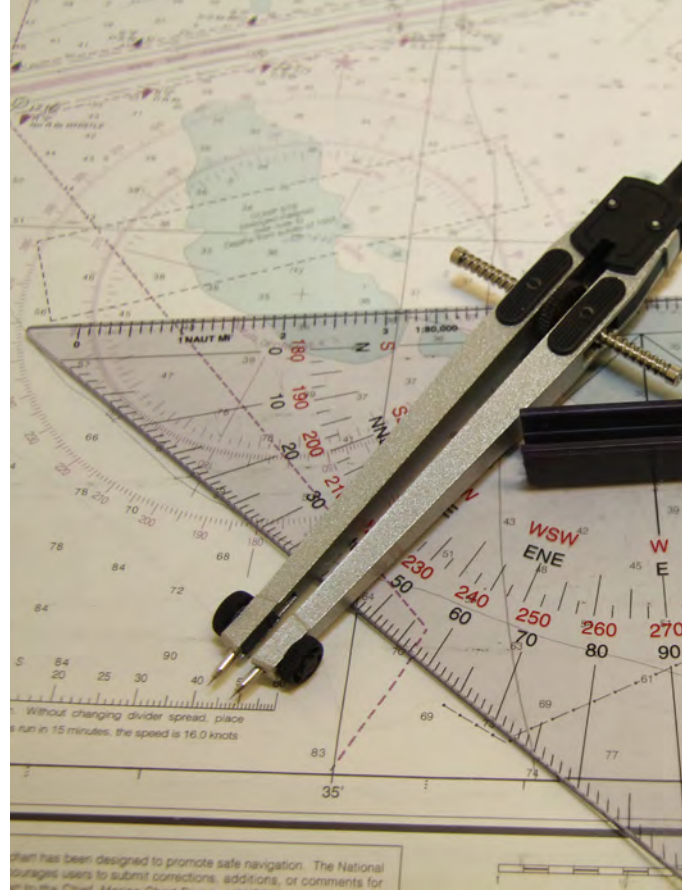
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HERE ARE THREE WAYS TO FIND THE INFORMATION YOU NEED:

1. Look for the topic you want in the Table of Contents. In the online catalog, each topic is hyperlinked to the page within the catalog that contains information about that topic.
2. Pick up the phone. Entries throughout the catalog and a list of useful phone numbers at the front of the catalog give you phone numbers to call if you need more information. Cal Maritime's main number is 707-654-1000.
3. Visit the campus on the web at <http://www.csum.edu>



CHANGES IN RULES AND POLICIES

Although every effort has been made to ensure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time, and that these changes may alter the information contained in this publication.

To prepare its students to pass licensing examinations, Cal Maritime modifies its curriculum to include the most recent changes in U.S. Coast Guard requirements. Changes may also come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the Chancellor or designee of the California State University, or by the President or designee of Cal Maritime. Furthermore, it is not possible in a publication of this size to include all of the rules, policies and other information that pertain to students, the institution, and the California State University. More current or complete information may be obtained from the online catalog, the Cal Maritime website, and the appropriate department, school, or administrative office.

Nothing in this catalog shall be construed as, operate as, or have the effect of an abridgement or a limitation of any rights, powers, or privileges of the Board of Trustees of the California State University, the Chancellor of the California State University, or the President of Cal Maritime. The Trustees, the Chancellor, and the President are authorized by law to adopt, amend, or repeal rules and policies that apply to students. This catalog does not constitute a contract, or the terms and conditions of a contract, between the student and Cal Maritime or the California State University. The relationship of the students to Cal Maritime and the California State University is one governed by statute, rules, and policy adopted by the Legislature, the Trustees, the Chancellor, the Presidents and their duly authorized designees.



MESSAGE FROM THE PRESIDENT



For generations, Californians have used their coastline to help fulfill their dreams and destinies. The Pacific ocean and its tributaries have been used for business, as transportation to a new life, and as a focus of a preferred lifestyle. For over 80 years, this proud heritage continues at the California State University's Maritime Academy, a thriving institution of technology, engineering, international business, global studies, and transportation, located on the San Francisco bay. Using our waterfront location, maritime tradition, and Corps of Cadets, we offer students a unique opportunity for intellectual, professional, and personal development. Our students participate in an educational system that emphasizes active learning both in and out of the classroom. By offering this blend of intellectual exploration, applied technology, and leadership training, Cal Maritime provides graduates with a breadth of professional skills unparalleled in most other institutions of higher education. In addition, the intimacy of a small residential institution creates a richness of shared experiences that defines and binds alumni for life.

Under the guidance and tutelage of a proud and dedicated faculty, staff, and administration, we offer a curriculum that, while unique, is flexible enough that graduates can seek careers in many technical, transportation, business, international trade policy, and engineering fields as well as the traditional maritime fields of shipping, port and terminal management, offshore drilling, and the fishing industries. Proof of that flexibility lies in the fact that we traditionally have one of the highest employment rates of any undergraduate institution.

Our strategic vision is global with our students participating in the annual cruise aboard our 500-foot *Training Ship GOLDEN BEAR*, sailing on a commercial ship, or working in a summer internship with international companies. These experiences often bring our students in contact with differing cultures, introduce them to a global economy, and give them an opportunity to apply their skills in a real-world setting. In addition, our location on the Pacific Rim in the new American Pacific century offers students a vantage point from which to realize a horizon of enormous opportunity.

We are proud of our place in the California State University system and of our tradition of serving the state and nation as the West coast's only maritime-oriented university. I encourage you to explore preparing for your future at Cal Maritime.

A handwritten signature in blue ink, appearing to read 'TAC', written in a cursive style.

Rear Admiral Thomas A. Cropper, USMS
President

CAL MARITIME AT A GLANCE

The maritime industry has a significant role in today's global economy. The men and women who work at ports and on ships are vital in the transportation of goods and commodities throughout the world. These merchant mariners manage cargo to its destination, navigate ships, manage ports and terminals, and oversee engine rooms. They understand the impact they may have on the environment through accidental oil spills and effluent discharge. Some work to improve engines and energy systems; others work in maritime law, safety, ship brokering and insurance, towing, piloting, amongst several facets of maritime trade and transportation.

Located in Vallejo, California, The California Maritime Academy (Cal Maritime) is one of only seven degree-granting maritime academies in the United States, and the only one located on the West coast. It is a unique and specialized campus of the California State University that offers licensed and non-licensed degree programs to meet the above diverse needs of the maritime industry.

Licensed programs prepare students for the Third Mate or Third Assistant Engineer license issued by the United States Coast Guard upon successfully completing their baccalaureate degree and passing the United States Coast Guard licensing examination. The license, recognized and respected by other countries, enables graduates to sail as officers on U.S. ships on any ocean, regardless of tonnage, horsepower and size.

Students interested in becoming a licensed Third Mate need to complete their studies in the Marine Transportation degree program. Students interested in becoming a licensed Third Assistant Engineer need to complete their studies in the Marine Engineering Technology degree program or the licensed Mechanical Engineering degree program.

In addition, Cal Maritime offers degrees in several non-licensed programs. Graduates in these programs typically work in shore-side jobs related to the maritime industry. For example, graduates are prepared to work in U.S. federal, state, and local governments; agencies specializing in maritime security; international organizations such as the International Maritime Organization (IMO) and the International Maritime Bureau (IMB); and insurance and underwriting firms specializing in shipping and maritime issues.

They are also prepared to pursue graduate study in engineering, maritime law, international relations, public policy, maritime affairs, and international business and trade.

The non-licensed degree programs include: Mechanical Engineering, Facilities Engineering Technology, International Business and Logistics, and Global Studies and Maritime Affairs.

Normally, all students, regardless of major, sail on at least one two-month cruise aboard Cal Maritime's ship, *The Training Ship GOLDEN BEAR (TSGB)*. Students in licensed programs must complete three cruises – two aboard the training ship and one on a commercial vessel. Engineers in non-licensed programs cruise once on the training ship and participate in two Cooperative Education (Co-Op) programs on land. Students in the International Business and Logistics program, as well as the Global Studies and Maritime Affairs program, complete one Co-Op program on land and may complete an international study program in lieu of the training cruise, depending on space availability in either experience.

At Cal Maritime, all students are in the Corps of Cadets. They are required to wear uniforms, attend formations and "stand watch." However, there is no armed service obligation requirement. Military options are available including programs offered by the Coast Guard and Navy. (See section on Military Opportunities.)

ACCREDITATION

Cal Maritime is accredited by the Western Association of Schools and Colleges (WASC), 985 Atlantic Avenue, Suite 100, Alameda, CA 94501, 510-748-9001, www.wascsenior.org. The Marine Engineering Technology and Facilities Engineering Technology programs are accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, www.abet.org. The Mechanical Engineering program is accredited by the Engineering Accreditation Commission (EAC) of ABET, www.abet.org. The Business Administration program is accredited by the International Assembly for Collegiate Business Education (IACBE), P.O. Box 25217, Overland Park, KS, 66225, 913-631-3009, www.iacbe.org.

STANDARDS OF TRAINING, CERTIFICATION AND WATCHKEEPING FOR SEAFARERS (STCW)

Cal Maritime is in full compliance with the requirements of the International Convention of the Standards for Training, Certification, and Watchkeeping for Seafarers 1995 (STCW 95) as administered by the U.S. Coast Guard.



VISION, MISSION, BELIEFS, AND VALUES

VISION

Cal Maritime's vision provides a compelling conceptual image of the future we will create for this institution and how we will build Cal Maritime in the years to come.

The California Maritime Academy will be a leading educational institution, recognized for excellence in the business, engineering, operations, and policy of transportation and related industries of the Pacific Rim and beyond.

We will maintain our commitment to quality instruction, research, and service in maritime education. From this foundation we will develop further to become a leader in engineering, science, and technology for the transportation industry. We believe our strength as an institution lies in maintaining focused areas of excellence, as distinguished from engaging in programmatic proliferation which our resource base cannot support.

MISSION

Our educational community subscribes to the following ideals:

- provide each student with a college education combining intellectual learning, applied technology, leadership development, and global awareness
- provide the highest quality licensed officers and other personnel for the merchant marine and national maritime industries
- provide continuing educational opportunities for those in the transportation and related industries
- be an information and technology resource center for the transportation and related industries

BELIEFS AND VALUES

The California Maritime Academy is defined, in part, by a system of beliefs that make us unique as an institution of higher education including:

- experiential learning
- ethics development, both personal and professional
- a small residential campus environment
- student centered learning
- professional orientation
- having a niche as a focus in higher education
- civility and collegiality
- a diverse living and learning community

Our values that influence how we make and carry out decisions, and how we interact with our internal and external constituencies include:

- dedication
- honor
- integrity
- respect
- responsibility
- trust

CAL MARITIME'S COMPASS POINTS

Cal Maritime uses the four points of the compass to symbolize the four key elements of our mission commitment to our students. Namely, intellectual learning, applied technology, leadership development, and global awareness.

Intellectual learning begins with the acquisition of data and culminates in analysis, synthesis, and evaluation. The initial stage is the acquisition of key facts, terms, precepts, and methodologies in a discipline. When these are synthesized, internalized, and integrated, the learner is able to construct a conceptual framework of the field, then reason through new scenarios. One who has mastered such a process will be able to solve problems, apply and evaluate theories, and construct new and meaningful syntheses from facts within the field. The levels of mastery involved in this process will differ according to the student's level of development. The beginning student learns key facts and theories. The intermediate student applies this knowledge to ever more challenging problems.

Finally, the advanced student demonstrates the ability to think critically and learn independently, allowing him or her to acquire insights and make significant achievements throughout life.

Applied technology is the use of direct experiential methods, both in classes and through immersion in professional environments, with the objective of learning the skills, techniques and attitudes appropriate to a student's chosen profession, particularly those aspects of a profession that are difficult to learn through traditional academic coursework. Cal Maritime's intention is that applied technology augment, enrich and supplement traditional classroom lecture and discussion, the intellectual learning. The outcome of these activities builds graduates with professional abilities that allow them to step into their roles in the maritime industry, and also in other industries or government.

Leadership development is informed by the action-oriented, real-world demands of the maritime industry, into which the majority of our graduates enter. Cal Maritime recognizes that the traditional formulation of leadership – developed as it was out of the merchant marine environment – still holds a great deal of foundational significance and value even as it evolves to encompass all our students, regardless of major. Today, Cal Maritime's leadership development program has become more intellectually robust and complex by recognizing the equally vital but seemingly paradoxical relationship between 'followership' and individual agency within an organization. The California State University's emphasis on cultivating critical thinking skills and ethics in its student graduates has provided a vital inroad to more deeply defining effective leadership practices at Cal Maritime. Only active, goal-directed, yet flexible and fluid thinking will allow the Cal Maritime graduate to maintain a competitive edge while navigating his or her course into the future.

Global awareness is based on substantive and applicable knowledge of a wide range of international issues and cultural perspectives. In the international arena, this type of understanding includes an array of issues that can be broken down into broad categories that include international politics and economics, environmental and cultural awareness, and global dynamics. Numerous contemporary issues face the global community, many of which have significant implications for the greater maritime and transportation industries.



These issues range from environmental crises affecting all people to critical political, economic, and social problems that affect much of the world's population. Global dynamics refers to the understanding of how the world's complex political, economic, social, and technological systems interact and operate in conjunction with one another. The interdependence of the members of the international community, and its impact on our students and their future, requires an awareness of global dynamics. Consistent with how we approach the other three points of the mission, global awareness at Cal Maritime is significantly more than academic and classroom-based awareness of the issues facing the world today and the diversity of cultures of the greater society in which we live.

We are committed to an understanding and awareness of global issues experienced firsthand by all of our students. To this end, all students at Cal Maritime are required to spend time abroad as part of their education. This active, participatory and experiential approach to global awareness makes Cal Maritime unique among many institutions of higher education in the United States.

HISTORY OF THE CALIFORNIA MARITIME ACADEMY

The California Maritime Academy is one of 23 campuses in the California State University system. It is the most unique of the campuses because of its size, roots, and rich maritime history.

SCHOOL—1929 TO 1939

The California Maritime Academy can trace its roots back to 1929 when the California State Legislature founded the California Nautical School. The original purpose of the school was to give practical and theoretical instruction in navigation, seamanship, steam engines, gas engines, and electricity in order to prepare young men for service as officers in the American merchant marine. The school received its first ship in 1931 along with a 50-acre site in Tiburon in Marin County. In 1936 the United States Congress passed the Merchant Marine Act, drastically changing the future of the institution.

The Act of 1936 directed the creation of an adequate merchant marine to support U.S. international and domestic commerce and to meet the needs for national defense. Both state and federal governments began to contribute matching funds to support the school. In the early days, only three-year deck and engineering programs were offered.

ACADEMY—1939 TO 1943

On October 10, 1939, the California Nautical School changed its name to The California Maritime Academy. In 1940, with war looming, the Academy was relocated to the Ferry Building in San Francisco. During World War II, the course of study was accelerated to only 17 months, with many graduating cadets serving in the war.

CAMPUS—1943 TO 1973

A new permanent site for Cal Maritime was found on a 67-acre site at Morrow Cove in Vallejo, 30 miles northeast of San Francisco. In 1943, campus construction was completed and the training ship relocated, making Vallejo the Academy's permanent home. In subsequent years, many larger, more permanent buildings were added to the site. In 1973 the first women were enrolled.

COLLEGE—1974 TO 1994

In the early seventies, Cal Maritime became a four-year college with majors in Nautical Industrial Technology and Marine Engineering Technology.

The first four-year class graduated in 1978. The academy gained accreditation by the Western Association of Schools and Colleges (WASC). In the late eighties, two new majors – Mechanical Engineering and Business Administration – were added, and the Nautical Industrial Technology program was replaced by Marine Transportation.

UNIVERSITY SYSTEM—1995 ONWARD

In July 1995, Cal Maritime became the 22nd campus of the California State University (CSU) system. In 1996, the school expanded its curriculum, introducing a major in Facilities Engineering Technology. A new science and engineering lab building was completed in 1999.

In 2003, a major in Global Studies and Maritime Affairs was introduced. It was the first new major to be accepted after the Academy's full transition into the CSU system. Also in 2003, Cal Maritime dedicated its new Technology Center.

In fall 2008, Cal Maritime opened a new state-of-the-art Marine Simulation Center – one of the world's most advanced facilities for maritime teaching, training, and research. A new 132-bed residence hall – McAllister Hall – opened in fall 2009. A new, totally on-line Master of Science degree in Transportation and Engineering Management was approved and launched in fall 2011.

Enrollment at Cal Maritime has grown steadily from 500 students in 1995 to its current size of nearly 975 students in response to industry demand for skilled, motivated, and well-trained mariners.

A new bookstore opened in spring 2013 and construction has recently been completed on a new 25,000 square foot, \$17 million Dining Center along the waterfront at the west end of campus. This three-story facility includes meeting rooms and sweeping views of the San Francisco bay.

DIVERSE HISTORY OF FIRSTS

In 1973 Cal Maritime became the first maritime academy in the U.S. to admit women. In addition, the campus had the first women to graduate from a U.S. academy (1976); the first woman to earn a Chief Engineer's license in the U.S.; the first woman to sail as Captain of a U.S. flagged merchant vessel (1988); and the first woman president of a U.S. academy (1990-1996). In fall 1994, the first African American corps commander led the cadets. In 1996, Cal Maritime founded the first chapter of Mexican American Engineering Society (MAES) at a U.S. maritime academy. Today, students from many national and cultural backgrounds, as well as first-generation college students and women, continue to excel at Cal Maritime.

HISTORY OF THE TRAINING SHIPS

In 1931 the steamship *HENRY COUNTY*, a Great Lakes freighter, served as the first training vessel at Cal Maritime. Renamed the *CALIFORNIA STATE*, it covered 21,000 miles on its first training cruise to New York through the Straits of Magellan. In the early forties, the ship was again renamed the *GOLDEN STATE* and berthed in Vallejo. *Training Ship GOLDEN BEAR I* sailed from 1947-1971. *Training Ship GOLDEN BEAR II*, previously the *USS CRESCENT CITY*, arrived in 1971. Built in 1940 in Maryland, she was a steamship and originally served as a cargo and passenger ship to Central and South America. In 1996 the third and current *Training Ship GOLDEN BEAR III* embarked on her maiden voyage. Formerly the *USNS MAURY*, she was a Navy oceanographic vessel built in 1989.

FUTURE

A new \$26.5 million Physical Education and Aquatics Center, located on the land north of the current campus gate on Maritime Academy Drive, is scheduled to open in fall 2014. The Center will include advanced resources to train cadets in maritime survival skills under realistic conditions of wind, wave and weather.

UNDERGRADUATE ADMISSIONS TO CAL MARITIME

Please note that due to the dynamic nature of managing campus enrollment in light of changing public policy, www.csum.edu/admission is the place to find the most current admissions policies.

OFFICE OF ADMISSIONS

The office of Admissions assists prospective students interested in attending Cal Maritime. The office holds walking tours of the campus, Monday through Friday, except holidays. Prospective students and their families are encouraged to make arrangements at least one week in advance. Appointments can be made online at:

<http://www.csum.edu/visit>

Mail: Office of Admissions
The California Maritime Academy
200 Maritime Academy Drive
Vallejo, CA 94590-8181

Phone: 707-654-1330

Fax: 707-654-1336

Email: admission@csum.edu

Web: www.csum.edu

ADMISSIONS PRACTICES

Please be advised that the most current admissions practices can be found online at: <http://www.csum.edu/web/admissions/admissions-process>

Cal Maritime is fully committed to enrolling a diverse student body. Requirements for admissions are in accordance with Title 5, Chapter 1, Subchapter 3 of the California Code of Regulations. If you are unsure of these requirements, consult a high school or community college counselor or the office of Admissions. Complete information is also available at: www.csummentor.edu/planning/

Cal Maritime accepts new students only for the fall semester. It is best to apply for admission during the priority CSU filing dates—October 1 through November 30—prior to the year in which you choose to enroll. (See the **California State University** section for additional CSU Admissions information.)

Cal Maritime may continue to accept applications for non-impacted degree programs after November 30 until programs are full. New students must declare a major at the time of application.

As an institution with a specialized mission, Cal Maritime abides by special provisions of the United States Maritime Administration, endorsed by the California State University. These provisions authorize Cal Maritime to use admissions criteria that are above CSU requirements in any program. These additional criteria may include high school GPA and coursework, extracurricular activities, leadership, character, and college entrance examination scores. Currently, additional criteria are only used for impacted programs.

Enrollment criteria for admitted students will also include requirements made by the U.S. Coast Guard for maritime academies, and the unique requirements of mandatory international travel, especially on the school's training ship. These factors are health, a record free of criminal offense and, for students seeking licenses, U.S. citizenship. All students must be able to obtain a passport, either from the United States or from their home country with a U.S. student visa.

If you need assistance in determining your eligibility, ask your high school or community college transfer counselor, visit www.csummentor.edu, or consult the Cal Maritime office of Admissions.



ADMISSIONS PROCEDURES AND POLICIES

All applicants must apply online at www.csumentor.edu. The CSU Mentor system enables students to browse through general information about the 23 CSU campuses, view multimedia campus presentations, send and receive electronic responses to specific questions, and apply for admission and financial aid.

UNDERGRADUATE APPLICATION PROCEDURES

To apply for admission to Cal Maritime, you must file a complete on-line undergraduate application and submit the requisite nonrefundable application fee. This fee can be paid electronically at the time of application submission.

ACKNOWLEDGEMENT OF APPLICATION

Cal Maritime promptly and electronically acknowledges all submitted applications. After the application is reviewed, notifications of missing or additional documents are made by e-mail or by notice on the admissions web portal. Formal notices of admissions decisions are mailed beginning in February and continue on a rolling basis.

UNDERGRADUATE ADMISSIONS REQUIREMENTS

First-time freshman requirements
<http://www.csum.edu/web/admissions/first-time-freshmen>

A student will be considered for admission as a first-time freshman if he/she: (1) is a high school graduate, has earned a Certificate of General Education Development (GED), or has passed the California High School Proficiency Examination; (2) has completed, with grades of C- or higher, each of the courses in the college preparatory subject requirements (see required and enhanced courses); and, (3) has a qualifying eligibility index for the student’s chosen degree program (see **Eligibility Index Table**).

TEST REQUIREMENTS

Freshman and transfer applicants to impacted or special requirement programs such as Mechanical Engineering, with fewer than 60 semester (or 90 quarter) units must provide SAT or ACT scores in all cases. All applicants to non-impacted programs who have fewer than 60 semester (or 90 quarter) units of transferable college credit are strongly encouraged to submit scores from either the ACT or the SAT Reasoning Test of the College Board. The last test date from which scores are accepted is the one offered in December of the year prior to desired enrollment. Registration information and dates are available from the following web sites:

The College Board (SAT)
 Registration Unit, Box 6200
 Princeton, NJ 08541-6200
 609-771-7588
www.collegeboard.com
 School Code: 4035

ACT Registration Unit
 P.O. Box 414
 Iowa City, IA 52240
 319-337-1270
www.act.org
 School Code: 0184

ELIGIBILITY INDEX

The eligibility index is the combination of a high school grade point average and a score on either the composite ACT score or the combined best math and best critical reading SAT scores.

The student’s grade point average (GPA) is based on grades earned in a set of required college preparatory “a–g” courses taken during the final three years of high school, with bonus points for approved honors courses (excluding courses such as physical education and military science).

Up to 8 semesters of honors courses taken in the last three years of high school, including up to 2 approved courses taken in the 10th grade can be accepted. Each unit of A in an honors course will receive a total of 5 grade points; B, 4 points; and C, 3 points. No additional points will be awarded for a grade of D.

A CSU Eligibility Index (EI) can be calculated in either of two ways: multiplying the student’s GPA by 800 and adding it to the mathematics and critical reading scores on the SAT, or multiplying the GPA by 200 and adding it to 10 times the ACT composite score. Thus:

If the SAT has been taken:
 $EI = (\text{SAT scores in mathematics and critical reading}) + (800 \times \text{high school GPA})$

If the ACT has been taken:
 $EI = (10 \times \text{ACT composite score without the writing score}) + (200 \times \text{high school GPA})$

California high school graduates (residents of California) and residents of WUE/WICHE (Western Undergraduate Exchange/Western Interstate Commission for Higher Education) states need a minimum EI of 2900 using the SAT, or 694 using the ACT. A higher EI may be required of residents of WICHE states for certain majors. The Eligibility Index Table illustrates several combinations of required test scores and averages.



Non-residents from states outside the WUE need a minimum EI of 3502 (SAT) or 842 (ACT). U.S. citizens who are graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section.

No matter how high a student's GPA may be, all applicants for admission are encouraged to take the SAT or ACT and provide the scores of such tests to Cal Maritime. These test results are used for advising and placement purposes. In addition, given the academic rigor of the unique curriculum, ACT or SAT scores may be required for some majors.

CONDITIONAL ADMISSIONS

All admissions offers at Cal Maritime begin as conditional offers of admission. The specific conditions are noted on the initial offer of admission. A common condition of admission is the verification of academic information provided in the online application based on the final transcripts received by the summer deadline. These final transcripts also verify that the student has remained eligible for admission based on grades received in courses from the final one or two semesters of their schooling.

In no case may documentation of high school graduation be received any later than the census date for a student's first term of CSU enrollment.

Cal Maritime may rescind admissions decisions, cancel financial aid awards, withdraw housing contracts, and cancel any university registration for students who are found not to be eligible after the final transcript has been evaluated.

Applicants will qualify for regular (non-provisional) admissions when Cal Maritime verifies that they have graduated and received a diploma from high school, have a qualifying minimum eligibility index, have completed the comprehensive sequence of college-preparatory "a-g" subjects, and, if applying to an impacted program or campus, have met all supplementary criteria.

Cal Maritime reserves the right and sole discretion to select its students and deny admission to any applicant based on his or her suitability and the best interests of the institution.

ELIGIBILITY INDEX TABLE FOR RESIDENTS OF CALIFORNIA (ALL MAJORS) AND WUE/WICHE STATES (IN CERTAIN MAJORS)

GPA	ACT SCORE	SAT SCORE	GPA	ACT SCORE	SAT SCORE	GPA	ACT SCORE	SAT SCORE	GPA	ACT SCORE	SAT SCORE	GPA	ACT SCORE	SAT SCORE
3.00 and above qualifies with any score			2.81	14	660	2.60	18	820	2.39	22	990	2.18	26	1160
			2.80	14	660	2.59	18	830	2.38	22	1000	2.17	26	1170
			2.79	14	670	2.58	18	840	2.37	22	1010	2.16	27	1180
2.99	10	510	2.78	14	680	2.57	18	850	2.36	23	1020	2.15	27	1180
2.98	10	520	2.77	14	690	2.56	19	860	2.35	23	1020	2.14	27	1190
2.97	10	530	2.76	15	700	2.55	19	860	2.34	23	1030	2.13	27	1200
2.96	11	540	2.75	15	700	2.54	19	870	2.33	23	1040	2.12	27	1210
2.95	11	540	2.74	15	710	2.53	19	880	2.32	23	1050	2.11	28	1220
2.94	11	550	2.73	15	720	2.52	19	890	2.31	24	1060	2.10	28	1220
2.93	11	560	2.72	15	730	2.51	20	900	2.30	24	1060	2.09	28	1230
2.92	11	570	2.71	16	740	2.50	20	900	2.29	24	1070	2.08	28	1240
2.91	12	580	2.70	16	740	2.49	20	910	2.28	24	1080	2.07	28	1250
2.90	12	580	2.69	16	750	2.48	20	920	2.27	24	1090	2.06	29	1260
2.89	12	590	2.68	16	760	2.47	20	930	2.26	25	1100	2.05	29	1260
2.88	12	600	2.67	16	770	2.46	21	940	2.25	25	1100	2.04	29	1270
2.87	12	610	2.66	17	780	2.45	21	940	2.24	25	1110	2.03	29	1280
2.86	13	620	2.65	17	780	2.44	21	950	2.23	25	1120	2.02	29	1290
2.85	13	620	2.64	17	790	2.43	21	960	2.22	25	1130	2.01	30	1300
2.84	13	630	2.63	17	800	2.42	21	970	2.21	26	1140	2.00	30	1300
2.83	13	640	2.62	17	810	2.41	22	980	2.20	26	1140	Below 2.00 does not qualify for regular admissions.		
2.82	13	650	2.61	88	820	2.40	22	980	2.19	26	1150			

The CSU uses only the SAT mathematics and critical reading scores, or the ACT composite score, in its admissions eligibility equation. The SAT or ACT writing scores are not currently used by CSU campuses.

ENHANCED REQUIREMENTS FOR RESIDENTS OF WUE/WICHE STATES (IN CERTAIN MAJORS) AND OUT-OF-STATE RESIDENTS FROM OUTSIDE WUE (ALL MAJORS)

GPA	2.45	2.6	2.8	3.0	3.2	3.61+
SAT	1550	1430	1270	1110	950	Any score
ACT	36	33	29	25	21	Any score

ENHANCED REQUIREMENTS FOR MECHANICAL ENGINEERING APPLICANTS

COURSE	YEARS	NOTES
Math Analysis or Pre-calculus	1	The fourth year of math is required to the in addition to the three years of math for all majors
Math SAT or Math ACT		Minimum Score 550 Minimum Score 23

ENHANCED REQUIREMENTS FOR IMPACTED MAJORS

The Marine Transportation, Marine Engineering Technology, Facilities Engineering Technology, and Mechanical Engineering majors have been designated as impacted. An undergraduate major or campus is designated as impacted when the number of applications received from fully-qualified applicants during the initial filing period exceeds the number of available spaces. As a result, applications to these majors will be reviewed on a competitive basis, with a higher qualifying Eligibility Index and additional courses taken in high school. Applicants are encouraged to complete one year of pre-calculus and one year of physics in high school. In addition, applicants may submit a resumé indicating leadership or experience.

SPECIAL ADMISSIONS CRITERIA FOR WICHE STATES

Cal Maritime, under its special mission as a West coast maritime academy, will consider out-of-state applicants from the western U.S. (defined by WICHE) by using the California resident eligibility index. A higher index may be required of residents of WICHE states for certain majors. Updated information is available online at: <http://www.csum.edu/web/admissions/first-time-freshmen>

WICHE states are Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming.

SUBJECT REQUIREMENTS

The California State University requires that first-time applicants complete, with grades of C or higher, a comprehensive set of college-preparatory “a-g” courses totaling 15 units (with a “unit” consisting of one year of study in high school):

- 2 years of the social sciences, including 1 year of U.S. history or U.S. history and government
- 4 years of English
- 3 years of math (algebra I, geometry, and algebra II)
- 2 years of laboratory sciences (1 year biological and 1 year physical, both with labs)
- 2 years of the same foreign language (subject to waiver for applicants demonstrating equivalent competence)
- 1 year of the visual and performing arts: art, dance, drama/theater, or music
- 1 year of electives selected from English, advanced mathematics, social sciences, history, laboratory sciences, foreign language, visual and performing arts, or other courses approved and included on the UC/CSU “a-g” list

ALTERNATE CRITERIA FOR HOME SCHOOLED STUDENTS

Students completing high school through home schooling are expected to meet the same admissions requirements as students attending traditional schools. Home schooled students may be affiliated with high schools or public school districts. In such cases, courses submitted to meet the college preparatory subject requirements must appear on the University of California’s “a-g” course list. For home schooled students who are not affiliated with high schools or districts, and who have insufficient courses from the UC “a-g” list, Cal Maritime will review the application on an individual basis to determine that all admissions requirements have been met.

Home-schooled applicants may be asked to submit supplemental information like SAT subject exam scores, ACT subscores, and AP exam scores to document completion of CSU eligibility requirements.

PLACEMENT AND REMEDIATION

Systemwide placement test requirements

The California State University requires each entering undergraduate, except those who qualify for an exemption, to take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment. These placement tests are not a condition for admission to the CSU, but they are a condition for enrollment. These examinations are designed to identify entering students who may need additional support in acquiring entry-level college English and mathematics skills that are necessary to succeed in CSU baccalaureate-level courses. Undergraduate students who do not demonstrate college-level skills both in English and in mathematics must take remedial coursework. Students taking remedial courses in either English or mathematics must complete all remediation in their first year of enrollment. Failure to do so may result in denial of enrollment for future terms.

Students may register for the EPT or the ELM at www.ets.org/csu. Testing opportunities are available at any campus of the CSU system.

English Placement Test (EPT)

The CSU English Placement Test (EPT) is designed to assess the level of reading and writing skills of entering undergraduate students so that they can be placed in appropriate baccalaureate-level courses. The CSU EPT must be completed by all entering undergraduates, with the exception of those who present proof of one of the following:

- A score of “Exempt” or “Ready for college-level courses” on the CSU Early Assessment Program (EAP), taken in grade 11 along with the California Standards Test (CST) in English Language Arts
- A score of 500 or higher on the critical reading section of the College Board SAT Reasoning test
- A score of 22 or higher on the American College Testing (ACT) English test
- A score of 680 or higher on the re-centered and adjusted College Board SAT II: Writing test taken in May 1998 or later
- A score of 3 or higher on either the English Language and Composition or the English Literature and Composition examination of the College Board Advanced Placement (AP) program
- Completion and transfer to CSU of the credits for a college course that satisfies the CSU General Education requirement in English Composition, provided such a course was completed with a grade of C or higher

Entry Level Mathematics (ELM) Placement Examination

The Entry Level Mathematics (ELM) placement examination is designed to assess the skill levels of entering undergraduate students in those areas of mathematics that are typically covered in three years of college-preparatory mathematics courses in high school (Algebra I, Geometry, and Algebra II). The CSU ELM must be completed by all entering undergraduates, with the exception of those who present proof of one of the following:

- A score of 550 or higher on the mathematics section of the College Board SAT Reasoning test or on the College Board SAT Subject test – Mathematics Level 1 or Level 2
- A score of 23 or higher on the American College Testing (ACT) Mathematics Test
- A score of 3 or higher on the College Board Advanced Placement (AP) Calculus AB or Calculus BC exam or Statistics exam
- Completion and transfer to CSU of a course that satisfies the CSU General Education requirement in Quantitative Reasoning, provided such a course was completed with a grade of C or higher
- A score of “Exempt” or “Ready for college-level Mathematics courses” on the CSU Early Assessment Program (EAP), taken in grade 11 along with the CST in Summative High School Mathematics or Algebra II
- A score of “Conditionally ready for college-level Mathematics courses” or “Conditional” on the CSU Early Assessment Program (EAP), taken in grade 11 along with the CST in Summative High School Mathematics or Algebra II, with the successful completion of a CSU-approved 12th grade math course that requires Algebra II as a prerequisite

EARLY START PROGRAM

<http://www.csum.edu/web/admissions/early-start-program>

The CSU recently enacted a program known as “Early Start.” It requires incoming students (California residents only) who do not demonstrate readiness for college-level math or English to begin remediation (enroll in and complete approved remedial courses) during the summer before coming to the CSU campus at which they seek to enroll. The goals of Early Start are to better prepare students in math and English before their first semester, thereby improving their chances of completing a college degree.

The Early Start program’s steps include taking the ELM and EPT tests, informing Cal Maritime about the school at which the student will complete the Early Start program, and submitting proof of course completion. Leaving any of these steps incomplete is grounds to remove the student from fall semester enrollment. Deadlines to be met and more detailed explanations can be found on the admissions web site.

All students who require remediation (including those in the Early Start program) are urged to seek out summer courses that fully complete the remediation process rather than courses that only begin remediation.

PROFICIENCY AFTER ENROLLMENT

Cal Maritime may offer courses in remedial English (Introduction to English Composition) and mathematics (Intermediate Algebra) for those who did not complete remediation in the summer before enrollment. Students must be proficient in both math and English by the end of the first academic year (by the end of the second semester). Students failing to do so may be disqualified from further enrollment at Cal Maritime. For more information, contact the Center for Engagement, Teaching and Learning at: <https://www.csum.edu/web/campus-life/student-resources/center-for-engagement-teaching-and-learning>

TRANSFER STUDENT ADMISSIONS

Enhanced requirements for applicants to the Marine Transportation program

The Marine Transportation, Marine Engineering Technology, Facilities Engineering Technology, and Mechanical Engineering majors have been designated as impacted. An undergraduate major or campus is designated as impacted when the number of applications received from fully qualified applicants during the initial filing period exceeds the number of available spaces.

As a result, applications to these majors will be reviewed based on the quantity and academic quality of the transfer applicant. Applicants are encouraged to complete pre-calculus before transferring. In addition, applicants may submit a resumé indicating leadership or experience.

California STAR Act (SB 1440)

The Student Transfer Achievement Reform Act (SB 1440/Padilla) establishes a transfer Associate of Arts (AA-T) or Associate of Science (AS-T) degree for California community college students and is designed to provide a clear pathway to CSU degree majors. The Student Transfer Agreement Reform Act (STAR) commenced in fall 2011.

Students who receive a California community college associate’s degree for transfer are eligible for admission as juniors in the California State University (CSU) system. A student who has earned one of these transfer degrees will not be guaranteed admission for a specific major or campus, but will be given priority admissions consideration to their local CSU campus, and to a program or major that is determined by the CSU to be similar to the transfer associate’s degree. Upon enrollment at the CSU campus, the student will be eligible to graduate with sixty remaining semester units.

For the most current list of Cal Maritime majors and community colleges with degrees that have been designated as similar and eligible for STAR Act transfer students, please visit the following web page:

<http://www.csum.edu/web/admissions/transfers>

Transfer students' time to graduation

Transfer students may require four years of study at Cal Maritime in order to complete the bachelor's degree and license requirements.

This is because:

- by federal law a student has to attend Cal Maritime no fewer than three years to receive a United States Coast Guard license
- degrees at Cal Maritime require up to 183 semester units. Most of the courses are specialized because of license requirements and are not available at other colleges
- students are allowed few open electives, and not every type of general education class is transferable to the degree program at Cal Maritime
- as a small college, Cal Maritime cannot offer all courses every semester. The courses are scheduled sequentially according to a set curriculum

For admission, a lower-division transfer student must have a minimum GPA of 2.0 (2.4 for non-residents), and an upper-division transfer student (more than 60 semester or 90 quarter units of college credit) must have a minimum GPA of 2.0 (2.4 for non-residents).

Lower-division transfer

To transfer with fewer than 60 transferable units (90 quarter units), you must do the following:

- submit your high school transcript
- submit SAT or ACT scores, unless your high school GPA was above 3.00
- make up any high school deficiencies on a course-by-course basis, usually by completing General Education courses
- earn at least a 2.00 GPA in all college work
- have met the CSU eligibility index with your high school courses
- earn a C- or higher in each General Education course
- be in good standing at the last educational institution attended

All Lower Division Transfer students must complete two subject areas with a grade of C- or higher prior to admission at Cal Maritime:

- a college English composition course (CSU General Education requirement A2)
- a college math course (CSU General Education requirement B4).

It is highly recommended, but not required, that students take a college pre-calculus course.

Students may also take elective courses applicable to their Cal Maritime major. To view the course curriculum for Cal Maritime majors, visit: <https://www.csum.edu/web/admissions/majors-and-degrees>

Upper-division transfer

To transfer with more than 60 transferable semester units (90 quarter units), you must do the following:

- earn at least a 2.0 GPA in all college work
- be in good standing at the last educational institution attended.

All upper-division transfer students should complete four subject areas with a grade of C- or higher prior to admission at Cal Maritime:

- a college English composition course (CSU General Education requirement A2);
- a college math course (CSU General Education requirement B4)
- a critical thinking / English literature course (CSU General Education requirement A3)
- an oral communication course (CSU General Education area A1)

These are often referred to as the "Golden 4" requirements. It is highly recommended, but not required, that students take a college pre-calculus course.

Students are also expected to have taken academic elective courses applicable to their Cal Maritime major. To view the course curriculum for Cal Maritime majors, visit: <https://www.csum.edu/web/admissions/majors-and-degrees>

Transfer credit

Types of college credit given prior to enrollment for courses that meet degree requirements are as follows (see Cal Maritime equivalency tables at the end of this section):

- college work from regionally accredited institutions as listed in the American Association of Collegiate Registrars and Admissions Officers "Transfer Credit Practices of Designated Educational Institutions" information exchange report
- applicable Advanced Placement (AP) coursework completed with a score of 3, 4, or 5 on the AP test for that course.
- applicable International Baccalaureate (IB) coursework completed with a minimum score on the IB test for that course.
- College Level Examination Program (CLEP) exams in the areas of natural science, humanities (not including English), and social science/ history.
- military educational experiences in the armed services as listed in the American Council on Education "Guide to Evaluation of Educational Experiences in the Armed Services"

College credit will not be given prior to enrollment for the following:

- transfer courses graded as "credit" if not verified as equivalent to a grade of C- or higher
- some transfer courses older than 10 years. This time period may be even shorter for some courses that are technical or that have specific requirements by licensing agencies

Conditional admissions

All admissions offers at Cal Maritime begin as conditional offers of admission. The specific conditions are noted on the initial admissions offer. A common condition of admission is verification that the spring semester transcript confirms that the student has remained eligible for admission based on grades received in courses from that semester.

ADULT STUDENT ADMISSIONS

As an alternative to regular admissions criteria, an applicant who is 25+ years of age by the first day of classes is considered for special admission. An adult student must meet the following conditions (in addition to supplementary criteria of Cal Maritime for admission or for U.S. Coast Guard license):

- possess a high school diploma or its equivalent (G.E.D. or California High School Proficiency Examination)
- have no prior enrollment in college as a full-time college student (12+ units per semester) for more than one term during the past five years
- have an average GPA of 2.0 (C or higher) on all college coursework in the past five years
- meet the English and mathematics requirements for either first-time freshmen or transfer students with grades of C- or higher
- be in good standing at the last educational institution attended

Also recommended:

- successful completion, with a grade of C- or higher, a college-level algebra/trigonometry course in the past five years or work in a related technical field within the last two years
- successful completion, with a grade of C- or higher, a college-level English composition course

VETERAN STUDENT ADMISSIONS

<http://www.csum.edu/web/admissions/veterans>

The California State University's "Troops to College" initiative allows Cal Maritime to exercise flexibility with established admissions policies for veterans. Veterans should determine their category of application (first-time freshman, lower-division transfer, or upper-division transfer) and follow the instructions for that application category to the best of their ability.

If some requirements cannot be met, veteran applicants should contact the Admissions office and introduce themselves as a veteran, so exceptions can be discussed and appropriate advice given. In general, veterans who did not meet CSU eligibility in high school or were unsuccessful in attempts at college will need to complete college English and college math with a grade of C- or higher to be admitted.

INTERNATIONAL STUDENT ADMISSIONS REQUIREMENTS

The CSU must assess the academic preparation of foreign students. For this purpose, international students include those who hold U.S. temporary visas as students, exchange visitors, and those in other non-immigrant classifications.

The CSU uses separate requirements and application filing dates in the admissions process of international students. Verification of English proficiency, financial resources, and academic performance are all important considerations for admission.

International students should use the same application period of October 1 through November 30 of the year prior to the fall semester in which they plan to enroll. Cal Maritime does not accept applications for any other term. In some years, the application period for certain majors may be extended to accommodate additional applications.

International students seeking degrees that require a U.S. Coast Guard license are not eligible for those licenses without first gaining U.S. citizenship. International students in those degree programs will, however, receive their diplomas and letters of completion for presentation to their countries' licensing organizations.

INTERNATIONAL STUDENT ENGLISH TEST REQUIREMENT

The Test of English as a Foreign Language (TOEFL) or the International English Testing System (IELTS) is required of all applicants with fewer than three years of full-time study (70 semester units or 105 quarter units) in countries where English was the primary language of instruction. The SAT or ACT math and verbal/English test scores may be substituted for this requirement by using the CSU eligibility index for non-residents.

The minimum TOEFL score is 61.
The minimum IELTS score is 6.

Academic records from foreign schools must be submitted before an admissions decision is made. If not in English, these records must be accompanied by certified English translations.

International applicants are also required to compose an essay and provide an affidavit of financial support.

International students must demonstrate the ability to pay for all educational expenses including books, room and board: approximately \$42,000 USD, the amount required to attend Cal Maritime for a year.

This must be done with a certified document either from a governmental agency or organization or from a financial institution handling the individual account of person(s) assuming responsibility for payment. **Financial aid is not available for international students.** International students are assessed fees at the non-resident of California rate.

International students pursuing license-option degrees will be required to obtain a Mariners Document from their country of origin, or other appropriate maritime nation, in order to work as a Third Mate or Third Assistant Engineer on vessels flagged under nations other than the United States.

As a condition of enrollment, all F-1 and J-1 visa applicants must agree to obtain and maintain health insurance as a condition of registration and continued enrollment at Cal Maritime. Such insurance must be in amounts as specified by the United States Information Agency (USIA) and NAFSA: Association of International Educators. The campus President or designee shall determine which insurance policies meet these criteria. Additional information may be obtained by writing the Admissions office.

RESIDENT ALIENS

Resident aliens (Permanent Residents) may submit a certified Permanent Resident Card (Form I-551) in lieu of a birth certificate for admissions. The Immigration and Customs Enforcement agency requires a passport or other legal travel document to sail on the training cruise, so students are advised to apply for those documents as soon as possible.

IMMIGRATION REQUIREMENTS FOR LICENSURE

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (P.L. 104-193), also known as the Welfare Reform Act, includes provisions to eliminate eligibility for federal and state public benefits for certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state, or federal government agency in order to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the Personal Responsibility and Work Opportunity Reconciliation Act to achieve licensure. Information regarding the application of these requirements is available from the Admissions office.

Conduct by applicants for admission

Admission or readmission may be qualified or denied to any person who, while not enrolled as a student, commits acts which, were he enrolled as a student, would be the basis for disciplinary action, pursuant to Section 41301 or Section 41302. Qualified or denied admission in such cases shall be determined under procedures adopted pursuant to Section 41304.

Importance of filing complete, accurate, and authentic application documents

Cal Maritime advises prospective students that they must supply complete and accurate information on the application for admission, residence questionnaire, health documents, and financial aid forms. In addition, applicants must, when requested, submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

ADMISSIONS APPEALS PROCESS

An applicant who has been denied admission may have that decision reconsidered. The applicant must compose a short letter detailing the reason(s) for the appeal. The letter and supporting documentation (evidence) must supply new information that was not available to the applicant when the original application was submitted. Some examples of decisions that a student may appeal:

Missed deadlines for

- application fee
- test scores (ACT or SAT)
- final high school transcript
- college transcript(s)
- acceptance of offer/enrollment deposit
- required math or English placement tests
- remediation in math or English as required but not attempted (Early Start program)



Admissions criteria based decisions such as

- freshman with a low eligibility index
- freshman missing college-prep course(s)
- transfer missing a “golden 4” requirement
- transfer with a low GPA
- transfer with fewer than 60 units and not meeting minimum high school qualifications

Appeal Procedure

All requests must include documentation related to the extraordinary circumstances to be considered for the appeal. Proof must be provided that the established admissions criteria for the type of admission (freshman or transfer) and all deadlines have been met. Also:

- there is a limit of one appeal per application per academic term
- the appeal must be received no later than 15 days from the date of the admission decision notification
- Appeal packets must include:
 - A letter of appeal
 - Documentation to support the appeal (e.g., transcripts, SAT/ACT scores, proof of mailing/ submission of requested information, etc.)

Appeal letters must be submitted by the applicant. Appeal letters written by anyone other than the applicant will not be considered. Letters of recommendation will not be considered.

- Appeal packets must be submitted by:
 - Mail to:
The California Maritime Academy
Office of Admissions–Admissions Appeals
200 Maritime Academy Drive
Vallejo, CA 94590-8181
 - FAX to: 707-654-1336
 - e-mail to: admission@csum.edu

After the appeal is received and reviewed, applicants will be notified of the appeal decision within two weeks by e-mail. Appeal applicants are advised to explore other college options or other educational pursuits while waiting for the appeal decision.

Reporting errors made on the application are not a basis for the reversal of a decision.

Decisions rendered are final and non-negotiable.

SYSTEMWIDE CREDIT FOR EXTERNAL EXAMS

AP Tests

COLLEGE BOARD ADVANCED PLACEMENT TESTS (AP)	MINIMUM SCORE	CAL MARITIME EQUIVALENCY	SEMESTER UNITS	GE BREADTH AREA
AP Art History	3	ELEC 21	3	C1 or C2
AP Biology	3	ELEC 62/62L	4	B2+B3
AP Calculus AB	3	MTH 210	4	B4
AP Calculus BC	3	MTH 210 & MTH 211	8	B4
AP Chemistry	3	CHE 100/100L	4	B1+B3
AP Chinese Language and Culture	3	ELEC 21	3	C2
AP Comparative Government & Politics	3	GMA 215 or ELEC 31	3	D8
AP English Language	3	EGL 100	3	A2
AP English Literature	3	EGL 100 or ELEC 21	3	A2+C2
AP Environmental Science	3	ELEC 63/63L	4	B1+B3
AP European History	3	ELEC 21 or ELEC 31	3	C2 or D6
AP French Language	3	ELEC 21	3	C2
AP German Language	3	ELEC 21	3	C2
AP Human Geography	3	ELEC 31	3	D5
AP Japanese Language and Culture	3	ELEC 21	3	C2
AP Latin: Vergil	3	ELEC 21	3	C2
AP Macroeconomics	3	ECO 100 or ELEC 31	3	D2
AP Microeconomics	3	ECO 101 or ELEC 31	3	D2
AP Physics B	3	PHY 100/100L	4	B1+B3
AP Physics C (electricity/magnetism)	3	PHY 200/200L	4	B1+B3
AP Physics C (mechanics)	3	PHY 200/200L	4	B1+B3
AP Psychology	3	ELEC 31	3	D9
AP Spanish Language	3	ELEC 21	3	C2
AP Spanish Literature	3	ELEC 21	3	C2
AP Statistics	3	MTH 107	3	B4
AP U.S. Government & Politics	3	ELEC 9	3	D8+US-2
AP U.S. History AP Statistics	3	ELEC 8	3	(C2 or D6)+US-1
AP World History	3	ELEC 21 or ELEC 31	3	C2 or D6

SYSTEMWIDE CREDIT FOR EXTERNAL EXAMS

CLEP Tests

COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)	MINIMUM SCORE	CAL MARITIME EQUIVALENCY	SEMESTER UNITS	GE BREADTH AREA
CLEP American Government	50	ELEC 9	3	D8
CLEP American Literature	50	ELEC 21	3	C2
CLEP Analyzing and Interpreting Literature	50	ELEC 21	3	C2
CLEP Biology	50	ELEC 62	3	B2
CLEP Calculus	50	MTH 210	4	B4
CLEP Chemistry	50	CHE 100	3	B1
CLEP College Algebra	50	ELEC 70	3	B4
CLEP College Algebra - Trigonometry	50	MTH 100	4	B4
CLEP English Literature	50	ELEC 21	3	C2
CLEP French Level II	59	ELEC 21	3	C2
CLEP German Level II	60	ELEC 21	3	C2
CLEP History, United States I	50	ELEC 8 or ELEC 31	3	D6+US-1
CLEP History, United States II	50	ELEC 8 or ELEC 31	3	D6+US-1
CLEP Human Growth and Development	50	ELEC 45	3	E
CLEP Humanities	50	ELEC 21	3	C2
CLEP Introductory Psychology	50	ELEC 31	3	D9
CLEP Introductory Sociology	50	ELEC 31	3	D0
CLEP Natural Sciences	50	ELEC 62 or ELEC 63	3	B1 or B2
CLEP Pre-Calculus	50	MTH 100	4	B4
CLEP Principles of Macroeconomics	50	ECO 100 or ELEC 31	3	D2
CLEP Principles of Microeconomics	50	ECO 101 or ELEC 31	3	D2
CLEP Spanish Level II	63	ELEC 21	3	C2
CLEP Trigonometry	50	ELEC 70	3	B4
CLEP Western Civilization I	50	ELEC 21 or ELEC 31	3	C2 or D6
CLEP Western Civilization II	50	ELEC 31	3	D6

SYSTEMWIDE CREDIT FOR EXTERNAL EXAMS

IB Tests

INTERNATIONAL BACCALAUREATE (IB)	MINIMUM SCORE	CAL MARITIME EQUIVALENCY	SEMESTER UNITS	GE BREADTH AREA
IB Biology HL	5	ELEC 62	3	B2
IB Chemistry HL	5	CHE 100	3	B1
IB Economics HL	5	ELEC 31	3	D2
IB Geography HL	5	ELEC 31	3	D5
IB History (any region) HL	5	ELEC 21 or ELEC 31	3	C2 or D6
IB Language A1 (any language) HL	4	ELEC 21	3	C2
IB Language A2 (any language) HL	4	ELEC 21	3	C2
IB Mathematics HL	4	ELEC 70	3	B4
IB Physics HL	5	ELEC 63	3	B1
IB Psychology HL	5	ELEC 31	3	D9
IB Theatre HL	4	ELEC 21	3	C1

AFTER BEING ADMITTED

DEPOSIT

To guarantee a space in the freshman class, you must submit a non-refundable* deposit of \$500. The deadline for submitting the deposit is May 1. Failure to meet the deadline may result in the cancellation of your offer of admission and of any financial aid award that you may have received. The \$500 deposit will be applied to your account as \$150 for housing and \$350 for uniforms.

*The deposit may be refunded upon request if a student does not pass medical review for his or her major. To secure a refund, all medical documents should have been submitted by April 1, any additionally requested information should be provided in a timely manner, and all information required was filled out by a physician.

HEALTH SCREENING

All incoming students are required to submit a health report prior to enrollment. The health report form must be completed and signed by a licensed health care provider and returned to Cal Maritime's Student Health Services (SHS) as soon as possible, and before May 1st. The actual physical examination must have been conducted within one year prior to enrollment, and with a Tuberculin skin test required within 6 months. All parts of the health report form must be completed, otherwise the form will be returned and the student will not be allowed to enroll.

There are specific health requirements for all Cal Maritime students inasmuch as every student is required to participate in at least one training cruise. Certain degree programs in which a U.S. Coast Guard license is a graduation requirement also have physical, perceptual, and psychological qualifications determined by the U.S. Coast Guard (see health criteria below). The SHS reviews the health reports to determine whether the incoming student meets the health requirements necessary for participation in the annual training cruise and, if enrolled in a license-track program, whether or not the student meets the health requirements necessary for licensure by the U.S. Coast Guard.

In addition, the CSU and Cal Maritime have specific immunization requirements. All entering students are required to submit proof of the following immunizations prior to their first semester of enrollment:

Measles and rubella: All new and re-admitted students born after January 1, 1957, must provide proof of two immunizations against measles and rubella.

Hepatitis B: All new students who will be 18 years of age or younger at the start of their first semester must provide proof of full immunization against Hepatitis B prior to enrollment. Full immunization against Hepatitis B consists of three doses of the vaccine administered over a period of 4 to 6 months at prescribed time intervals. If you need further details or have special circumstances, please consult SHS.

Meningococcal disease: All freshmen are required to have the vaccine prior to enrollment at Cal Maritime. Students will be required to submit a form indicating that they have received information about meningococcal disease, including the availability of a vaccine to prevent them from contracting it and a statement indicating whether or not they have chosen to receive the vaccination. These are not admissions requirements, but are required of students as conditions of enrollment at a CSU campus.

Additional immunization requirements at Cal Maritime include: hepatitis A (two dose series), varicella (two dose series) and dTAP (diphtheria, tetanus, pertussis).

HEALTH CRITERIA

Students enrolled in license-track programs are required to meet the additional health criteria set forth in the U.S. Department of Homeland Security, USCG Navigation and Vessel Inspection Circular (NVIC) No. 04-08, Medical and Physical Evaluation Guidelines for Merchant Mariners credentials. A non-exhaustive list of the specific health requirements may be found at:

www.uscg.mil/hq/cg5/nvic/2000s.asp#2008

Summary of the eyesight and color vision criteria:

Deck license students or applicants for qualified deck rating should demonstrate that they have correctable vision to at least 20/40 in each eye and uncorrected vision of at least 20/200 in each eye. Engineering license students or applicants for qualified engineering rating should demonstrate that they have correctable vision of at least 20/50 in each eye and uncorrected vision of at least 20/200 in each eye. The U.S. Coast Guard (USCG) may grant a waiver if the above vision criteria are met in one eye and for uncorrected vision up to 20/800, provided the correctable vision standards are met. Applicants for STCW 95 endorsements should meet the same vision standards. In addition, deck license students must pass a color vision test approved by the USCG and Marine Engineering candidates are required to pass a separate color vision test, also approved by the USCG.

Students enrolled in license-track programs should be able to meet USCG physical agility standards, and physical and mental health criteria. Specific medical/physical/psychological conditions may be subject to an additional in-depth review. Any significant functional impairment, medical condition, or physical or psychological impairment, including some learning disabilities that might prevent a candidate from performing ordinary sea duties or have the potential of causing sudden incapacitation of a cadet or officer at sea, could preclude enrollment at Cal Maritime and participation in maritime licensing programs.

ORIENTATION

Before the beginning of each fall semester, the office of the Dean of Students conducts a mandatory orientation, a program that introduces new students to the Cal Maritime. Students who do not attend the entire program will be dropped from enrollment for the fall semester.

REGISTRATION FOR COURSES

First-time students may register for fall semester classes at Cal Maritime after they are accepted and have cleared their health screening, have paid their required deposit, and have submitted any additional documents that may have been requested. Continuing students will receive a registration or enrollment appointment which may be retrieved through the student section of PeopleSoft. Continuing students are required to meet with their advisor prior to registration, and to clear all financial or university obligations before registering for the next term.

PASSPORT

All incoming students must obtain a valid passport prior to enrollment. For more information, visit:

www.travel.state.gov

TRANSPORTATION WORKER IDENTIFICATION CREDENTIAL (TWIC)

All cadets in USCG license-track majors – Marine Transportation, Marine Engineering Technology and Mechanical Engineering – are required to hold a TWIC as of their sophomore year. The TWIC is a prerequisite to application for a USCG Merchant Mariner Credential and is required for cadets enrolling in CRU 200 or CRU 250. Cadets in non-license track programs are encouraged to obtain a TWIC inasmuch as many of the Cooperative Education opportunities are with employers who require a TWIC.

The office of the Registrar will provide students with information regarding the TWIC application process during their first year. For more information, visit:

www.tsa.gov/twic

UNIFORMS

At Cal Maritime, all students are required to wear uniforms per MARAD regulations, and uniform and grooming standards are a key component of the Leadership Development program.

All incoming freshmen are required to purchase the initial-issue sea bag through the campus bookstore. Exceptions to this policy may be requested for a specific reason as outlined in the student handbook, and require written approval from the Commandant of Cadets. Additional or replacement uniform pieces may be purchased elsewhere, but shall conform in quality, material, and style to uniforms sold through the bookstore.

Upon acceptance, students should take their sizing sheet to a professional tailor of their choice and return this form to the bookstore by May 1, or as soon as the uniform deposit is paid. A summer fitting appointment to try on the uniform must be scheduled with the bookstore and completed prior to August 1. To schedule an appointment, call 707-654-1186. The balance payment for the uniforms is due at the fitting appointment, and all non-tailored items may be taken home at that time.

USE OF SOCIAL SECURITY NUMBER

Applicants are required to include their correct social security numbers in designated places on applications for admission, pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code (26 U.S.C. 6109).

Cal Maritime uses the social security number to identify students and their records, including identification for the purpose of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution.

Also, the Internal Revenue Service requires Cal Maritime to file information returns that include the student's social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. This information is used by the IRS to determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes.



MAKING UP MISSING REQUIREMENTS

Undergraduate applicants who did not complete subject requirements while in high school may make up missing subjects by:

- completing appropriate courses with a grade of C or higher prior to high school graduation
- completing appropriate college courses with a grade of C or higher, with each college course that earns at least 3 semester (4 quarter) units being considered equivalent to one year of high school study
- earn acceptable scores on specified examinations

NON-TRANSFER OF ACCEPTANCE

Admission is not transferable either to another term at Cal Maritime or to another CSU campus. Applicants who do not enroll must reapply for admission and must resubmit the application fee and documents.

DOCUMENT RIGHTS

Cal Maritime reserves the right to determine whether a transcript from another educational institution can be accepted as official. All transcripts and records submitted with the application for admission become the property of Cal Maritime and cannot be returned. Applicants do not have the right to access or review files during the admissions process.

The documents of applicants who enroll are forwarded to the office of the Registrar and are then accessible for review by the enrolled student, in compliance with the **Family Educational Rights and Privacy Act**. When a student withdraws from enrollment, the documents supporting an application for admission, such as transcripts and entrance examination scores, will be held for at least one year before they are destroyed.

CANCELLATION OF REGISTRATION OR WITHDRAWAL FROM THE INSTITUTION

Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term are required to follow Cal Maritime's official withdrawal procedures. Failure to do so may result in: an obligation to pay fees; failing grades being assigned in all courses; and, the need to submit an application for readmission before being permitted to enroll in another academic term.

Prior to withdrawing, students who receive financial aid funds *must consult* with the Financial Aid office, 707-654-1275, regarding any required repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

SUPPLEMENTAL ENROLLMENT OPTIONS

Enrolled students who have completed at least one term and 12 units on a campus of the California State University, and who are in good standing at their home campus with a 2.00 GPA or higher, may elect to take courses at another CSU host campus, on a space available basis, without formal admission.

Although courses taken at any CSU campus will transfer to the student's home CSU campus as elective credit, students should consult their home campus academic advisors to determine how such courses may apply to their degree programs before enrolling at the host campus.

There are two programs for enrollment within the CSU, and one for enrollment between CSU and the University of California or the California Community College system. A special application detailing policies and procedures may be obtained from the office of the Registrar.

INTRASYSTEM ENROLLMENT AT THE CSU

CSU Concurrent Enrollment allows CSU students in good standing the ability to enroll concurrently at another CSU campus for a specific term, subject to the availability of space, and to the registration priority policies at the host campus. Credit earned at the host campus is reported, at the student's request, to the home campus for being included on the student's transcript at the home campus.

CSU Visitor Enrollment allows CSU students in good standing the ability to enroll at another CSU campus for one term, subject to the availability of space, and to the registration priority policies at the host campus. Enrollment as a visitor may be repeated after re-enrollment at the home campus. Credit earned at the host campus is reported, at the student's request, to the home campus for being included on the student's transcript at the home campus.

INTERSYSTEM CROSS-ENROLLMENT WITH THE UNIVERSITY OF CALIFORNIA OR WITH THE CALIFORNIA COMMUNITY COLLEGE SYSTEM

Undergraduate students enrolled in the California State University may enroll, without formal admission and without payment of additional CSU fees, in one course in each academic term at a campus of the University of California or at participating campuses of California Community College system subject to the availability of space.

Students may request that a transcript of record be sent to the home campus. Cross enrollment is available to California residents only. Students must have completed one regular term at their home campus as with a 2.00 GPA or higher. Additional details on cross-enrollment policies and procedures are available from the office of the Registrar.

OPEN UNIVERSITY

Enrollment in Open University is open to only those students who are not currently enrolled in a university. This includes: former Cal Maritime students who have been inactive (matriculation closed) or graduated (alumni); students who have been academically disqualified from Cal Maritime or other institutions; international or non-resident students not enrolled in a university program; and members of the general public. Students who received sanctions of suspension or expulsion from Cal Maritime may not enroll through Open University. Questions regarding sanctions should be directed to the Commandant's office.

Open University is not open to students who received an approved leave-of-absence/withdrawal, or who elect not to enroll in a semester at Cal Maritime. Students with an approved leave-of-absence are still matriculated and therefore are not eligible to register in Open University.

Students interested in taking courses offered in an impacted program (check the Admissions website) must secure the approval of the department Chair and Academic Dean on the Open University form. For a listing of courses which require safety-sensitive clearances, visit the Open University website located under the office of the Registrar.

Academically disqualified students may elect to enroll at Cal Maritime through Open University to register for courses in which grades of D or F was earned. Cal Maritime repeated course rules apply to Open University courses. All grade attempts for a repeated course will be recorded on the student's transcript and averaged into their GPA calculations. In accordance with the Cal Maritime's Academic Standing policy, students disqualified for a third failure of a course must successfully complete the course prior to readmission. It is recommended that academically disqualified students meet with the department Chair for advising prior to enrolling in Open University.

Students may enroll in up to 3 courses per semester, but not exceed 7 units. Students may not enroll in directed-, independent-, or individual-study courses, research, thesis, field work, cooperative education or cruise. A maximum of 24 semester units earned through Open University in a non-matriculated status may be applied toward a bachelor's degree. All units attempted through Open University will be calculated in the student's GPA.

Students should print and complete the Open University registration form available at the Registrar's office website, and attend the first class meeting to get faculty approval to add the course. Although enrollment in Open University courses is based on the availability of space, the Registrar's office cannot guarantee that students will be permitted to enroll in any class. The faculty have the discretion to manage course enrollment, and to require students to provide evidence of the satisfactory completion of prerequisites that must be completed prior to enrollment. An academic transcript indicating successful completion of course prerequisites must be submitted at the time of application.

Students should attend the first week of classes and secure faculty approval by the second week of the late registration period. Once submitted, Open University Add forms will be processed during the second week of the late registration period. Students must complete the registration process as described on the Open University website and meet all published add/drop deadlines. Open University Add forms will not be processed prior to the start of the semester.

Students must pay Open University fees at the Student Accounts office. The Open University website provides the most current tuition fees. The fees apply to both in-state and out-of-state students. Students should check with the Business office for adjustments or refund policies. Open University students must comply with Cal Maritime and individual department regulations regarding prerequisites, withdrawals, repeats, grading, and student conduct. Health, medical, and food services are available at additional cost, with arrangements made through the Cashier's office.



Open University students are not eligible for financial aid, campus housing privileges, campus student employment, tutoring, participation in the Corps of Cadets, and watchstanding.

Open University students will be issued a temporary Cal Maritime email address and access to university learning platforms, such as Moodle, which may be required for the course(s). Upon completion of the semester, students may view their grades online or request an official Cal Maritime transcript.

Open University students are not members of the Corps of Cadets and should not dress in uniform. Students will not be permitted to conduct business on campus or attend classes wearing shorts, tee shirts, sandals, or similar attire.

READMISSION REQUIREMENTS

Application for readmission must be completed in full no later than October 1 for readmission to the spring semester of the following year, and April 1 for readmission to the fall semester of the year of application. Any student out of attendance for more than 2 consecutive semesters must apply for readmission.

Complete information on the readmission process may be found on the Registrar's office web page at:
<https://www.csum.edu/web/registrar/readmission>

Other documentation required for readmission may include the submission of official college transcripts of work completed during leave, a physical exam, and TB test. Students will be notified if additional documentation is required.

Readmission acceptance is based upon the completion of the requirements for readmission, an assessment of the reason the applicant left Cal Maritime, and also upon the availability of space.

For assistance with readmission, the applicant should call the Registrar's office at 707-654-1200.

**FEE POLICY
ACADEMIC YEAR 2014-15**

FEE LIABILITY

Students and prospective students who register for courses offered by Cal Maritime are obligated to pay the fees associated with registration for those courses. In addition, there may be other fees charged by third parties for licenses and exams that are requirements of degree programs.

It is the policy of Cal Maritime that students enrolled in its baccalaureate degree programs maintain residence on campus and participate in a meal plan. Enrollment obligates students to pay charges for campus housing and food service unless the student has submitted and received written approval of their petition for off-campus housing.

In addition, certain departments may make assessments of varying amounts for equipment and facilities, loss, damage, breakage, waste of materials, and for late payments or late registration.

Failure to cancel registration in any course or to officially withdraw from Cal Maritime for an academic term prior to the first day of the academic term gives rise to an obligation to pay student fees, including any tuition or fees for the reservation of space in the course or facility.

SCHEDULE OF FEES

The California State University (CSU) makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial fee payments are made, to increase or modify any listed fees, without notice, until the date when instruction for a particular semester or quarter has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by The Board of Trustees.

Fees and tuition are subject to change without notice due to Trustee, Legislative, or University action. Updated fee information, payment deadlines, and procedures are provided each semester at the Schedule of Fees document posted at: <https://www.csum.edu/web/faculty-and-staff/af/business/student-services/fees>

ALL STUDENTS

Application Fee (nonrefundable) payable by credit card, check or money order at time application is made: \$55

2013/14 Basic Tuition Fees

The following reflects applicable systemwide fees for semester campuses that were authorized by the Board of Trustees at their July and November 2011, and September 2012 meetings. These rates are subject to change.

UNDERGRADUATE	SEMESTER
6.1 or more units	\$2,736
6.1 or more units	\$1,587
POST-BACCALAUREATE	SEMESTER
6.1 or more units	\$3,369
0 to 6.0 units	\$1,953

Nonresident Tuition

In addition to basic tuition fees and other fees paid by all students, nonresident tuition is charged at \$372 per unit. The total nonresident tuition paid per term will be determined by the number of units taken.

Mandatory system-wide fees are waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see fee waivers below).

Campus-based fees

In addition to tuition fees and other systemwide fees, students enrolled in a degree program at Cal Maritime pay the following fees: housing, food service, health services, health facility, parking, associated student body, instructionally related activity, campus document, and specific course and laboratory fees determined by courses taken. Current charges for all fees can be viewed each year in the Schedule of Fees document posted at: <http://www.csum.edu/web/faculty-and-staff/af/business/student-services/fees>.

Medical Insurance is a requirement for all students enrolled in a degree program at Cal Maritime. All students meeting the enrollment eligibility requirements are charged for medical insurance. Please see the Medical Insurance Handbook for more information.

Students who have private medical insurance with sufficient coverage to meet the minimum requirements established by Cal Maritime may complete a medical insurance fee waiver online to request this fee be waived. Visit the Student Health Center page for more information. There are strict deadlines for this request.

If the medical insurance fee waiver is approved, a credit to the student's account will be made. Students who withdraw from Cal Maritime by the policy's deadline and who have not used the Cal Maritime policy prior to withdrawal will also receive a refund. Students who request a refund or withdraw after the Cal Maritime policy deadline will be referred to Student Health Services at 707-654-1170.

Students are required to purchase approved uniforms. Please contact the University Bookstore at 707-654-1186 or visit www.cma.bkstr.com for information regarding cost and availability.

FEE WAIVERS AND EXEMPTIONS

The California Education Code includes provisions for the waiver or exemption of mandatory systemwide fees as follows:

Section 66025.3 – Qualifying children, spouses/registered domestic partners, or unmarried surviving spouses/registered domestic partners of a war period veteran of the U.S. military who is totally service-connected disabled or who died as a result of service-related causes; children of any veteran of the U.S. military who has a service-connected disability, was killed in action, or died of a service-connected disability and meets specified income provisions; any dependents or surviving spouse/registered domestic partner who has not remarried of a member of the California National Guard who in the line of duty and in active service of the state was killed or became permanently disabled or died of a disability as a result of an event while in active service of the state; and undergraduate students who are the recipient of or the child of a recipient of a Congressional Medal of Honor and meet certain age and income restrictions.

Section 68120 – Qualifying children and surviving spouses/registered domestic partners of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of active law enforcement or fire suppression duties (referred to as Alan Pattee Scholarships).

Section 68121 – Qualifying students enrolled in an undergraduate program who are the surviving dependent of any individual killed in the September 11, 2001 terrorist attacks on the World Trade Center in New York City, the Pentagon building in Washington, D.C., or the crash of United Airlines Flight 93 in southwestern Pennsylvania, if the student meets the financial need requirements set forth in Section 69432.7 for the Cal Grant A Program and either the surviving dependent or the individual killed in the attacks was a resident of California on September 11, 2001.

Section 68122 – Students who are victims of trafficking, domestic violence, and other serious crimes who have been granted T or U visa status are exempt from paying nonresident tuition if they (1) attended high school in California for three or more years; (2) graduated from a California high school or attained the equivalent; and (3) registered as an entering student or are currently enrolled at a CSU campus.

Section 68130.5 – Students who are not residents of California are exempt from paying nonresident tuition if they (1) attended high school in California for three or more years; (2) graduated from a California high school or attained the equivalent; and (3) registered as an entering student or are currently enrolled at a CSU campus. In addition, students without lawful immigration status will be required to file an affidavit stating that they have filed an application to legalize their immigration status, or will file an application as soon as they are eligible to do so. This exemption from paying nonresident tuition does not apply to students who are nonimmigrant aliens within the meaning of 8 U.S.C. 1101(a)(15), except as provided by Section 68122 above.

Students who believe they may qualify for these benefits should contact the Registrar's office for further information and an eligibility determination.

PAYMENT OF FEES AND OTHER UNIVERSITY CHARGES

Students will receive an email notification at their official campus email address when a fee statement is posted to their account. The email will provide a link to the login screen where a student can view his/her electronic statements. No fee bills, statements, or reminders will be mailed. It is the student's responsibility to monitor his/her campus email and to view his/her account status.

Students may view their account balance and details of all charges at the student services site
<http://www.csum.edu/web/faculty-and-staff/student-services>

Fee due dates for each semester and detailed charges may be viewed by logging into the online payment site
<http://www.csum.edu/web/faculty-and-staff/online-payments>

All fees must be submitted to the Accounting office by the semester due date. After this date, all new fees and other charges posted to the student account are due within 24 hours after assessment.

Students adding courses with fees (Cruise, International Experience, Co-Op, Firefighting, etc.) after the semester's posted 'Last Day to Add' must submit a completed Late Add form and may be required to remit payment before registering for the course.

PAYMENT OPTIONS

- E-check (electronic check) payments are made online by following the link on our web site or through Online Services. There is no fee to make a payment online by e-check.
- Credit/Debit Card payments are accepted online by following the link on our web site or through Online Services. All credit and debit card payments must be processed online. A convenience fee is assessed by the third party vendor who processes credit/debit card payments. MasterCard, American Express and Discover bank credit cards may be used for payment of student fees.
- Check or money order payments mailed should be addressed to:
The California Maritime Academy
Attn: Cashier
200 Maritime Academy Drive
Vallejo, CA 94590-8181
In order to ensure payments are received and posted to your account by the fee due date, please mail payments at least 10 business days prior to the due date.
- Check, money order or cash payments are accepted at the campus Cashier's Office.
- You may submit an approved Installment Payment Plan with required deposit and administrative fee each semester by the published due date. An application form and eligibility requirements are available from our web site.
- You may defer payment for the amount of fees equal to your anticipated financial aid for the semester. To be eligible, a student must apply for financial aid and complete all paperwork (applications, promissory notes, tax records, pre-loan counseling, fee waiver forms, third party sponsor authorizations, etc.), clear all holds, and be enrolled in the units necessary to qualify for the aid award prior to the fee due date. If the anticipated aid is not sufficient to cover all fees, the student must remit payment for the remainder by the fee due date.
A student requesting deferred payment on the basis of anticipated financial aid but who is not certified by the Financial Aid office by the fee due date will have his/her enrollment cancelled. Upon completion of Financial Aid certification, the student may re-enroll, subject to class availability, when registration re-opens for the semester. A late registration and late payment fee will be assessed. If a financial aid award or other third party sponsorship is changed or disallowed, the student is immediately responsible for payment in full.
- Payments returned by the bank for any reason are subject to an administrative fee. A returned payment will be considered the same as no payment. Students who have a payment returned by the bank are required to pay by cash, certified check, money order or online by credit card.



CONSEQUENCES OF NON-COMPLIANCE

Fees must be submitted to the Accounting office using one of the payment options above by the fee due date. After the due date, students with outstanding balances are subject to cancellation of enrollment. The student may re-enroll when registration re-opens for the semester, subject to class availability. A late registration and late payment fee will be assessed. Meal plans may be deactivated until the account is no longer delinquent. In the event of deactivation due to non-payment of fees, the plan charge will not be prorated for the time that meal service was suspended.

If a student misses a scheduled payment on an installment payment plan, the student is subject to a late payment fee and will be subject to cancellation of enrollment. Also, the student will not be eligible for future installment payment plans.

Should a student fail to pay a fee or a debt owed, Cal Maritime may “withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt” until the debt is paid (Title 5, California Code of Regulations, Section 42380 and 42381).

In accordance with this regulation, it is the policy of Cal Maritime that any student with a balance due will not be allowed to register for classes, take final exams, receive grades, receive official transcripts of grades, participate in any cruise, undergo the selection process for commercial cruise, or benefit from the other services offered by the institution. In addition, Cal Maritime may offset refunds to financial aid recipients if funds are required to be returned to the financial aid programs as a result of dropped units or a withdrawal from Cal Maritime.

If a student leaves Cal Maritime with unpaid fees or fines that remain due, those amounts will automatically convert to a student loan on the last day of the semester that the student last attended. The loan is due and payable to Cal Maritime no later than June 30th of the academic year that the student last attended.

In addition, Cal Maritime may also report the debt to a credit bureau, offset the amount due against any future state tax refunds due the student, refer the debt to an outside collection agency and charge the student actual and reasonable collection costs, including reasonable attorney fees if litigation is necessary, in collecting any amount not paid when due.

If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person may contact the Accounting office. The Accounting office will review all pertinent information, as provided by the person and as available to the campus, and advise the person of its conclusions. In all cases, it is important to act in a timely manner when requesting a review of debts and possible refunds.

CANCELLATION OF REGISTRATION OR WITHDRAWAL FROM CAL MARITIME

Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term are required to follow Cal Maritime’s official withdrawal procedures.

Failure to follow these formal procedures may result in an obligation to pay fees, the assignment of failing grades in all courses for which the student was registered, and the need to apply for readmission before being permitted to enroll in another academic term. Information about canceling registration and withdrawal procedures is available from the Registrar’s office.

Students who receive financial aid funds must consult with the Financial Aid office prior to withdrawal regarding any required return or repayment of grants, loan assistance or third party payments received for that academic term or payment period. If a recipient of student financial aid funds or third party sponsor payments drops his/her registration from courses or withdraws from Cal Maritime during an academic term or a payment period, the amount of grant or loan assistance received may be subject to return and repayment provisions. This includes amounts in excess of fees which were passed through to the student by way of student refunds.

For additional information about returns of financial aid, please contact the Financial Aid office.

REFUND POLICY

REFUND OF MANDATORY FEES, INCLUDING NONRESIDENT TUITION

In order to receive a full refund of mandatory fees including nonresident tuition, less an administrative charge established by the campus, a student must cancel registration or drop all courses prior to the first day of instruction for the term. If a student is withdrawing from Cal Maritime after classes have begun, it is his/her responsibility to submit written notification to the Registrar's office. Information on procedures and deadlines for canceling registration and dropping classes is available from the Registrar's office.

When a student requests a refund or withdraws from Cal Maritime, an audit is made on the account to verify the actual amount that should be returned. Any refund due back to a student is applied first toward any required return of student financial aid funds from federal, state, institutional, or external sources, then towards any outstanding fees or debts to Cal Maritime. Any remaining balance may be returned to the student or to the parents if the balance is the result of a parent's PLUS loan.

Credit balances of less than \$10.00 will not be refunded. Information concerning any aspect of the refund of fees may be obtained from the Accounting office.

Refund of fees does not constitute formal withdrawal from Cal Maritime. To withdraw formally, a student must contact the Registrar's office in writing with their intent to withdraw.

Regulations governing the refund of mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in Section 41802 in Title 5 of the California Code of Regulations. For purposes of the refund policy, mandatory fees are defined as those systemwide fees and campus fees that are required to be paid in order to enroll in state-supported academic programs at the California State University.

Refund of fees and tuition charges for self-supported programs at the California State University (courses offered through Extended Learning/Continuing Education) are governed by a separate policy established by Cal Maritime.

For state-supported semesters, quarters, and non-standard terms or courses of four (4) weeks or more, a student who withdraws during the term in accordance with Cal Maritime's established procedures will receive a refund of mandatory fees, including non-resident tuition, based on the portion of the term during which the student was enrolled up to the date of formal withdrawal from Cal Maritime.

A student who fails to drop registration prior to the 60% point in the semester, or fails to officially withdraw from Cal Maritime, shall not be entitled to any refund of registration, nonresident tuition, mandatory, or user fees.

For state-supported semesters, quarters, and non-standard terms or courses of less than four (4) weeks, no refunds of mandatory fees and nonresident tuition will be made unless a student cancels registration or drops all classes prior to the first day in accordance with Cal Maritime's established procedures and deadlines.

Students formally dropping from the higher fee category (> 6.0 semester units) to the lower fee category (< 6.0 semester units) by the end of the Drop period will automatically receive financial credit on their accounts for the difference in fees. Please consult the Schedule of Fees for the current rates. Refunds will be made after the end of the official Add period through the end of the official Drop period.

Students dropping to zero units prior to the 60% point of the semester will automatically receive prorated financial credit on their account for registration fees charged. Pro-rata refunds are determined on the basis of the date of the student's formal withdrawal and the length of the academic period. The length of the academic period is calculated from the first day of instruction through the final exam day of the period and excludes any breaks of five (5) days or more.

Refunds for course fees for Cruise, International Experience, Co-Op, Firefighting, and of Lab fees, are covered by separate policies detailed under course fee refunds section below

Some course fees and the Medical Insurance fee may not be refundable based on the drop date. Students who request a refund for Medical Insurance and withdraw after the Cal Maritime policy deadline will be referred to Student Health Services.

Uniform Deposits are collected on behalf of the Cal Maritime Bookstore and forwarded to credit the student's account at the Bookstore. The Bookstore is responsible for all uniform refunds according to its policy.

Students will also receive a refund of mandatory fees, including nonresident tuition, under the following circumstances:

- The tuition and mandatory fees were assessed or collected in error
- The course for which the tuition and mandatory fees were assessed or collected was cancelled
- Cal Maritime makes a delayed decision that the student was not eligible to enroll in the term for which mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student
- The student was activated for compulsory military service

Students who are not entitled to a refund as described above may petition for a refund under exceptional circumstances. The Chief Financial Officer (CFO) of Cal Maritime or a designee may authorize a refund if it is determined that the fees and tuition were not earned by Cal Maritime. Information concerning any aspect of the fees may be obtained by visiting our web site or from the Cashier's office

COURSE FEE REFUNDS

All course fee refunds require the student to officially drop the course either through Online Services or the Registrar's office. Any fees owed to Cal Maritime and any returns to financial aid will first be deducted from the credit balance. Any remaining credit balance on the student's account will be refunded unless the student requests that the credit remain on account for future registration.

FIREFIGHTING FEE REFUNDS

Refunds for Firefighting will be made as follows:

- Up to 7 calendar days before the start of the class—full refund
- Less than 7 days before the start of the class—less an administrative charge of \$25
- After the start of the class—no refund

CRUISE FEE REFUNDS

Refunding cruise fees are made in accordance with the following principles:

- Refunds are made only for students who did not attend cruise and who formally drop the course. There are no refunds for students who leave the ship once the cruise period begins. Requests for refunds for unforeseeable circumstances beyond the control of the student should be made to the CFO.
- The Registrar's office must certify that the student did not attend cruise.
- Refunds will be made as follows:
 - Cal Maritime students who formally dropped the course and did not attend cruise:
 - Up to 30 calendar days before the start of cruise—full refund
 - From 30 to 15 calendar days before start of cruise—less an administrative charge of \$50
 - Less than 15 days before the start of cruise—less an administrative charge of \$100
 - After the start of cruise during the following 60-day period—less an administrative charge of \$250
 - More than 60 days after the start of cruise—no refund
 - Visiting students enrolled through Extended Learning and Concurrent Enrollment who officially drop the course and do not attend cruise:
 - Non-refundable fees include drug testing and document fee

CRUISE-MPM INTERNATIONAL EXPERIENCE FEE REFUNDS

Refunding fees are made in accordance with the following principles:

- Refunds are made only for students who formally drop the course prior to the published drop deadline. Requests for refunds after the deadline for unforeseeable circumstances beyond the control of the student should be made to Cal Maritime's CFO who will consult with the appropriate academic officers to make a determination based on the merits of each specific case
- The Registrar's office must receive a completed Drop form, signed by the department Chair and the Academic Dean, by 4 PM of the day prior to the published Drop deadline
- Refund requests will be audited by the Registrar's office, Financial Aid office, and Accounting office before payment are processed
- Any outstanding debts owed to Cal Maritime will first be deducted from any refund
- Accounts charged in error will be refunded in full, if requested by the deadline

COMMERCIAL CRUISE AND CO-OP COURSE FEE REFUNDS

Refunds of fees are made in accordance with the following principles:

- Up to 30 calendar days before the start of the class session—full refund
- From 30 to 15 calendar days before the start of class session—less an administrative charge of \$25
- Less than 15 days before the start of class session—less an administrative charge of \$50
- After the start of the class session during the following 60-day period—less an administrative charge of \$75
- More than 60 days after the start of the class session—no refund

WELDING AND MANUFACTURING LAB FEE REFUNDS

Full refund is issued for those students who formally drop the class no later than the third class meeting. After the third class meeting, no refunds will be made.

MT LAB FEE REFUND

Refunds are made only for students who did not attend cruise and who formally dropped the course. Refunds are not made when a student leaves the ship after the cruise has started.

REFUNDS OF OTHER UNIVERSITY FEES

PARKING PERMIT REFUNDS

Parking on campus is by permit only. Requests for refunds must be submitted in the same semester as the permit was issued. Refunds are prorated from the start of the semester to the date the permit is returned based on the schedule provided by The CSU Chancellor's Office Parking Fee and Refund Schedule. Additional information may be obtained from the Public Safety office.

HOUSING AND FOOD SERVICE REFUNDS

Housing and Food service refunds are processed according to the terms of the Housing License Agreement. After the 60% point of the semester, no refunds are made. Students desiring to live off-campus must submit a petition for off-campus housing to the Director of Housing and Residence Life for approval by the published due date. Additional information may be obtained from the Housing office.

FINANCIAL AID

Financial aid is available to all students to assist with the cost of education, without regard to family income. Cal Maritime encourages all students to apply for financial aid. It is the student's responsibility to apply for and complete all requirements for financial aid, and we are here to help. Additional information can be obtained from the Financial Aid office (707) 654-1275 or **finaid@csu.edu** and online at: <http://www.csum.edu/web/financial-aid/home>

Cal Maritime offers a variety of financial aid programs to students needing assistance in financing their education. Funds are made available by the U.S. Department of Education, the State of California, private lending institutions and, with support from our philanthropic donors, Cal Maritime directly. Types of financial assistance include scholarships, grants, loans, and employment opportunities. Assistance can be in the form of need-based or non-need-based sources of financial aid.

APPLYING FOR FINANCIAL AID

To apply for financial aid, students should submit a Free Application for Federal Student Aid (FAFSA). The FAFSA is the basic application required for most federal, state, and institutional financial aid. Applications can be submitted beginning January 1 before the start of the academic year (i.e., January 1, 2013, for the 2013-14 school year). You can apply online at www.fafsa.gov.

You can also request a paper application by calling 1-800-4FED-AID. A federal PIN is necessary to sign the FAFSA. PINs can be obtained at www.pin.ed.gov. If the FAFSA is filed before the parent or student files tax returns for the year, that person may fill out the FAFSA and submit corrections upon completion of their tax returns. **Priority for grants is given to those students who submit their FAFSA by March 2.**

SCHOLARSHIPS

Cal Maritime receives annual scholarship funds from individuals, corporations, foundations, and professional associations. The California Maritime Academy Foundation manages a number of scholarship endowments, many of them named in memory of distinguished individuals associated with Cal Maritime.

Continuing students may apply for The California Maritime Academy Foundation scholarships in February. Applicants are chosen based on merit (cumulative GPA), need (the expected family contribution from the FAFSA application), leadership, and community service. There may be other determining factors, depending on the donor's wishes. Students are notified before the end of the spring semester of their scholarship award for the next academic year.

FUTURE SCHOLARS

These scholarships are awarded to California high school graduates who meet regular CSU admissions requirements and are economically, environmentally, or educationally disadvantaged.

ATHLETIC SCHOLARSHIPS

Athletics scholarships are awarded to incoming students who show prowess in targeted areas of Cal Maritime's athletics program. Due to budgetary constraints, these scholarships are limited in number. These awards are initiated by the department of Athletics.

WESTERN UNDERGRADUATE EXCHANGE (WUE) SCHOLARSHIPS

Cal Maritime participates in the Western Undergraduate Exchange (WUE) program administered by the Western Interstate Commission of Higher Education (WICHE). This program is designed to permit students from participating states to attend Cal Maritime at reduced tuition rates. Students from the states of Alaska, Arizona, Colorado, Commonwealth of the Northern Marianas Islands (CNMI), Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming are eligible as applicants from WICHE member states. Students participating in Cal Maritime's WUE program pay only 50% more than the in-state tuition rate. WUE scholarships reduce the overall cost of attending Cal Maritime by reducing the tuition for a recipient from out-of-state.

To be eligible for consideration, a student must meet the following requirements: (a) be accepted as a full-time student at Cal Maritime, and (b) be a resident of a WICHE member state. Inquiries for WUE should be directed to the office of Admissions. To apply, please complete the application for undergraduate admission through CSU Mentor between October 1 and November 30 in the year prior to enrollment. Applications after the priority date will be considered on a case-by-case basis.

To remain in Cal Maritime's WUE program, students must complete a minimum of 12 graded credit hours per semester and maintain a 2.25 cumulative GPA as a freshman, and a minimum 2.5 GPA thereafter. Students may participate in the program for a maximum of eight (8) semesters. There are no appeals if a student's grades drop below the required 2.25 and 2.5 GPA requirements described above. However, WUE status may be reinstated for the following academic year when appropriate GPA levels are regained, with approval of the WUE oversight committee. Please contact the Financial Aid office for further details on WUE reinstatement application procedures.

CAPTAIN DAVID LYMAN SCHOLARSHIP FOR HAWAII RESIDENTS

The Captain David Lyman Scholarship seeks to honor the memory of Captain David Lyman, a longtime member of Hawaii's maritime community, by providing financial incentive for Hawaii students to apply to and enroll at Cal Maritime and pursue a maritime profession.

Up to two recipients will be selected each year. Each student receives a scholarship of up to \$3,000 per year, renewable for up to a total of four years if the student maintains a minimum GPA while at Cal Maritime as follows:

- Freshman students must maintain a minimum 2.25 GPA
- Sophomore, Junior, and Senior students must maintain a minimum 2.50 GPA

To be eligible for the scholarship, students must meet all of the following criteria:

- Be a resident of the state of Hawaii;
- Submit an online admission application to Cal Maritime by November 30 of the year preceding the year of attendance
- Be a student pursuing their first bachelors degree;
- Be a student pursuing a degree in Marine Transportation, Marine Engineering Technology, or Mechanical Engineering (USCG License Track)
- Apply for the scholarship in writing by January of the year of attendance

THE OSHER FOUNDATION SCHOLARSHIP

The Bernard Osher Foundation, headquartered in San Francisco, was founded in 1977 by Bernard Osher, a respected businessman and community leader. The Foundation seeks to improve quality of life through support for higher education and the arts. The Foundation provides post-secondary scholarship funding to colleges and universities across the nation.

A generous scholarship endowment has been given to Cal Maritime by the Bernard Osher Foundation to assist upper-division transfer students from California community colleges with the tuition cost of attending Cal Maritime. Up to two new scholarships may be awarded each year. Qualifying students may retain their scholarships for up to eight semesters. Scholarship amounts can be up to \$5,000 per year. To be eligible, a student must:

- Submit an online application for admission to Cal Maritime by November 30 of the year preceding the year of attendance
- Be a student transferring in with at least 60 transferable semester units (or equivalent) completed by the spring semester before enrolling
- Be a student whose last college was a California Community College
- Submit the Osher Foundation Scholarship application by the February of the year of attendance

GRANTS

FEDERAL PELL GRANT PROGRAM

Pell Grants are federally funded, need-based awards available to students pursuing their first undergraduate degree. Grants are awarded on a sliding scale based on a student’s expected family contribution from the FAFSA and enrollment. Pell Grants are awarded assuming full-time enrollment. The award may be adjusted according to actual enrollment at the add/drop deadline for the term.

Full time	12 or more units
3/4 time	9 to 11.9 units
1/2 Time	6 to 8.99 units
1/4 Time	3 to 5.99 units

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT PROGRAM (FSEOG)

SEOG Grants are federally funded, need-based awards available to students pursuing their first undergraduate degree who have exceptional financial need. Priority is given to Federal Pell Grant recipients and those who have completed their FAFSA by March 2. These funds are awarded directly by Cal Maritime and are limited to the total amount allocated to the college by the U.S. Department of Education.

CAL GRANT A & B

The California Student Aid Commission awards these grants to California residents who have displayed academic achievement and financial need.

Cal Grant A provides need-based grant assistance to low- and middle-income students to offset tuition/fee costs for high school graduates with at least a 3.0 GPA. Recipients must also meet financial requirements. For 2013-14, the maximum Cal Grant A award for CSU students is \$5,472 for undergraduates. These awards are limited to the total amount of the system-wide state tuition fees for full-time students.

Cal Grant B provides need-based grant assistance to high-potential students from low-income, disadvantaged families to help offset tuition/fee and other costs for high school graduates with at least a 2.0 GPA. Recipients must also meet financial requirements. In 2013-14, the maximum living allowance is \$1,473 and the tuition/fee awards are the same as Cal Grant A (\$5,472) for students enrolling at CSU campuses.

Students must apply for the Cal Grant by completing their FAFSA by the March 2 deadline and submitting a GPA verification form. This grant is not available to students who have already received a baccalaureate degree.

STATE UNIVERSITY GRANTS

The State University Grant (SUG) provides need-based awards to cover the state tuition fees for eligible undergraduate students who are California residents or are otherwise determined as eligible. System-wide, the priority is to award an SUG at least equal to the amount of the state tuition fees of \$5,472 to eligible, first-time undergraduate students. At Cal Maritime, preference is given to high-need students who have filed their FAFSA by March 2. Students who have their state university fees paid with a Cal Grant or by another outside agency are not eligible to receive this award.

LOANS

All students are required to make a “self-investment” in their education. Student loans play a significant role in financing the education of Cal Maritime students. federal Perkins loan, federal direct Stafford loan, and Parent Loans for Undergraduate Students (PLUS) are the best loans that students and their families can receive because they are federally regulated. Please remember that these are loans and must be repaid. Failure to repay these loans can result in loan default, resulting in many years without the use of credit. Students must complete a FAFSA to determine eligibility for all loans.

FEDERAL PERKINS LOAN

The Federal Perkins Loan is awarded on the basis of financial need as determined by the expected family contribution, and the funds available for awards through the Financial Aid office. This loan has a fixed 5% interest rate. No interest accrues while you are in school, and during a 9-month grace period after you either leave school, or cease to be enrolled at least half-time. The amount of the loan is adjusted annually depending upon the Perkins loan funds available for disbursement.

FEDERAL DIRECT STAFFORD LOANS

A subsidized federal direct Stafford loan is a government-insured, long-term, low-interest loan for eligible undergraduate students. The federal government pays the interest on the loan while the student remains enrolled in college at least half-time or more. Repayment begins six months after graduation or separation. The standard repayment period is 10 years. However students can take longer, if needed. Loans for the 2013-14 award year will have an interest rate during repayment of 3.4%.

An unsubsidized federal direct Stafford loan is a long-term, low-interest loans for eligible undergraduate and graduate students who generally do not qualify for other need-based financial assistance, or for students who need loan assistance beyond the maximums provided by the subsidized loan program. Students can pay the interest while in school, or defer payments until the loan goes into repayment. Repayment on the loan begins six months after graduation or separation. The standard repayment period is 10 years. However students can take longer, if needed. Loans for the 2013-14 award year will have an interest rate of 6.8%.

Stafford Subsidized Loans*

0 to 30 units	\$3,500
30.1 to 60 units	\$4,500
59.9 to 90 units	\$5,500
90.1 units +	\$5,500

* A subsidized loan is need-based. If the student has no financial need, this amount is offered as an unsubsidized loan.

Stafford Unsubsidized Loans

	DEPENDENT STUDENTS	INDEPENDENT STUDENTS
0 to 30 units	\$2,000	\$6,000
30.1 to 60 units	\$2,000	\$6,000
59.9 to 90 units	\$2,000	\$7,000
90.1 units +	\$2,000	\$7,000

FEDERAL PLUS LOAN

A Parent Loan for Undergraduate Students (PLUS) is a government-insured, long-term, low-interest loan for eligible parents of dependent, undergraduate students who generally do not qualify for other financial assistance. Parents may borrow up to the total cost of their dependent student's education minus any other aid for which the student is eligible.

PLUS loans have a fixed interest rate of 7.9%. Repayment begins 60 days after the funds are fully disbursed (usually towards the middle of Spring term), and the repayment term is 10 years. Parents have the option of deferring repayment on PLUS loans while the student is in school, and for a six-month grace period after the student graduates or drops below full-time enrollment.

Dependent students whose parents have been denied a PLUS loan may be eligible to apply for an additional unsubsidized Stafford loan.

To qualify for a PLUS loan, the parent must be a U.S. citizen or an eligible non-citizen, have a valid social security number, and pass a credit check.

For the credit check, parents generally must not have any outstanding tax liens, unpaid judgments, delinquent or defaulted loans, extensive credit card debt, bankruptcy, foreclosure or wage garnishment within the past five years. Parents who cannot pass the credit check may still be able to receive a PLUS loan if they know someone who can pass the credit check and is willing to co-sign their loan.

PRIVATE LOANS

In addition to the federal loan program, many lenders offer alternative educational loans. At Cal Maritime, alternative or private loans are discouraged. These loans have variable rates and are not federally regulated. We recommend that students use alternative loans only as a last resort, since interest rates are higher for these loans and are based on credit ratings. If students would like an alternative loan, they will be asked to complete a FAFSA and will be asked to use the federal options first.

STUDENT EMPLOYMENT

For many students, employment is a supplement to borrowing. Students should attempt to establish a reasonable balance between their academic efforts and work schedules. Consequently, student employees may not work more than 20 hours per week except during periods when classes are not in session.

Cal Maritime is an Equal Opportunity Employer. The Financial Aid office reaffirms Cal Maritime's commitment to equal opportunity to all, regardless of race, color, creed, national origin, ancestry, gender, marital status, disability, religious or political affiliation, age, or sexual orientation.

FEDERAL WORK STUDY PROGRAM

Federal Work-Study (FWS) students receive priority placement for student employment on campus. FWS is a need-based financial aid program that provides part-time employment for students. Work-Study jobs assist students financially and may provide career-related work experience. Pay rates vary depending on job requirements and student skills. To receive priority consideration, complete the FAFSA by March 2 for the upcoming year.

Students who are interested in a FWS position must make sure they have been awarded FWS. If not, they must contact the Financial Aid office to see if they are eligible.

Once it is determined that a student has been accepted into the FWS program, he or she must go to the Career Center for assistance in finding an on-campus job, and to complete the required paperwork.

OTHER SOURCES OF ASSISTANCE

BUREAU OF INDIAN AFFAIRS GRANTS

The Bureau of Indian Affairs has scholarship money available to students who are enrolled members of a federally-recognized tribe. Students must be enrolled full-time (12 units) and have at least a 2.0 cumulative GPA. Students who believe they may be eligible should contact the Office of Indian Education at 916-978-4680. Applications for fall enrollment must be received by June 15 of the prior year.

LAW ENFORCEMENT PERSONNEL DEPENDENTS GRANT (LEPD)

The California Student Aid Commission provides subsistence payments to dependents of firefighters and law enforcement personnel who have become permanently disabled or are killed in the line of duty. The grant is based upon need. Additional information and application materials are available from the California Student Aid Commission.

ELIGIBILITY REQUIREMENTS FOR FEDERAL FINANCIAL AID

Each Federal program has its own set of requirements governing the administration and receipt of funds from the program. These requirements are subject to change at any time.

In order to receive financial aid at Cal Maritime, a student must:

- be a U.S. citizen or eligible non-citizen
- be registered with the Selective Service (if required)
- be enrolled or accepted for enrollment as a regular matriculated student in a degree program
- be making Satisfactory Academic Progress
- not owe a refund on a federal grant or be in default on a federal education loan
- not have been convicted of a drug related violation while receiving federal student aid
- for state programs – Cal Grant and State University Grant – be a California resident

FINANCIAL AID SATISFACTORY ACADEMIC PROGRESS

It is the policy of Cal Maritime that all students receiving Title IV assistance meet satisfactory academic progress (SAP) standards as defined by Cal Maritime in accordance with Subpart C part 668, Student Assistance General Provisions, of the Student Financial Aid regulations.

This policy has been established to ensure that Title IV recipients meet the criteria indicated below, whether or not they previously received aid. The programs governed by these regulations are:

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant (SEOG)
- Cal Grants (A & B)
- Federal Work Study
- Federal Perkins Loan
- Federal Stafford Loan
- Federal PLUS Loan
- State University Grant

SATISFACTORY ACADEMIC PROGRESS STANDARDS

The federal government mandates that every student be subject to satisfactory academic progress (SAP) guidelines in order to receive financial aid. When initiating the financial aid process, all transfer credit history and past performance are subject to SAP guidelines. Students must demonstrate appropriate SAP in order to receive financial aid.

There are two components required to maintain SAP: a *qualitative* measure, demonstrated by grade point average (GPA), and a *quantitative* measure which includes both a measurement of pace of progression towards a degree and a maximum timeframe for completion of a program of study.

GUIDELINES TO ESTABLISH SATISFACTORY ACADEMIC PROGRESS

MAJOR	AVERAGE UNITS NEEDED FOR DEGREE	UNITS NEEDED PER YEAR TO GRADUATE IN 4 YEARS	MINIMUM UNIT EXPECTATION TO GRADUATE WITHIN THE MAXIMUM TIMEFRAME
Business Administration International Business and Logistics	120	30	20
Facilities Engineering Technology	153	38	26
Global Studies and Maritime Affairs	120	30	20
Marine Engineering Technology	161	40	27
Marine Transportation	159	40	27
Mechanical Engineering ME Option	154	39	26
Mechanical Engineering - 3rd Assistant Engineer's License Option	183	46	31

QUALITATIVE STANDARD

To retain eligibility for financial aid, a student must maintain an academic-year cumulative GPA of at least 2.0 (C average). The academic year for financial aid purposes runs from the start of the fall term to the end of spring term. Courses with F and NC grades are included in the GPA calculation as "zero" earned grade points. Students who are academically disqualified are ineligible for financial assistance until formally re-admitted to Cal Maritime.

QUANTITATIVE STANDARD

The quantitative standard has two components:

- pace of progression
- maximum timeframe (see table above)

Pace of Progression

Cal Maritime has seven undergraduate majors, each with its own separate unit requirement for graduation. Full-time students are expected to complete their degree within 8 terms (4 years). However, because some students need additional time, financial aid is available for up to 6 years for students without transfer credits.

To ensure students are making progress towards their degree, Cal Maritime requires that they complete 67% of all attempted units in their program. To graduate within the maximum timeframe for financial aid, each student in their individual major has an average number of units required to complete for each year. Effective Fall 2011 the calculation will be based on cumulative units. Courses with F, NC, W, I and WU grades taken at Cal Maritime will be included in the cumulative units attempted.

Maximum Timeframe

Students cannot receive financial aid for an indefinite period of time. Federal regulations stipulate that the maximum timeframe for completion of a degree is 150% of the published length of time required to complete the program.

Transfer credits applied to outstanding degree requirements will be counted as both attempted and completed units when determining both pace of progression and maximum timeframe. Remedial coursework is NOT included in the units attempted and units completed calculations.

SAP EVALUATION PERIOD

Financial Aid SAP will be reviewed at the end of the academic year. Grades received for Co-Ops and Internships will be counted in the term the student receives the grade for the course.

INCOMPLETE AND WITHDRAWALS

Letter grades of W, WU, NC, I, IC and RD are all considered toward units attempted for pace of progression but, because no credits are earned and thus the units are not considered completed, these grades will not improve a student's pace towards graduation.

SAP DISQUALIFICATION

Students who fail to meet SAP standards will be disqualified and deemed ineligible for Federal and State financial assistance. All students who are disqualified for aid because they are not deemed to be making appropriate SAP will be notified by the Financial Aid office. If it is determined, during the SAP review process, that a student will not be able to meet the quantitative measure (maximum timeframe) by graduation, the student will be ineligible for future financial assistance.

APPEALING AND REINSTATEMENT OF FINANCIAL AID ELIGIBILITY

To regain eligibility for financial aid, a student may submit an appeal in cases where there has been a death of a relative, injury or illness, or other special circumstance. There are three critical elements to filing a successful appeal:

- an explanation why the student failed to make satisfactory academic progress
- what has changed in the situation that will ensure success in future coursework
- an academic plan approved by an academic or major advisor which demonstrates that, if followed, the student will be able to meet SAP standards within one year, or by a specific time point as defined by the plan

We encourage all students who fail to maintain SAP for financial aid purposes to submit an appeal and to speak with a representative from the Financial Aid office.

Students who regain eligibility as a result of an appeal will be considered to be on financial aid probation for the period of the plan. If the student fails to meet financial aid SAP standards (as defined by the academic plan), or if the student does not follow the academic plan, the student's aid eligibility will be suspended. No further appeals will be granted unless the student can demonstrate there were extenuating circumstances beyond the student's control which prevented meeting the requirements of the academic plan. These circumstances must be different circumstances than those for which a prior appeal was granted.

CONTINUED ENROLLMENT WITHOUT FINANCIAL AID

If a student is denied financial aid as a result of SAP rules, the student may continue coursework at Cal Maritime without the benefit of federal, state, or campus financial aid. It may be possible for students to receive loans and scholarships from private sources.

WITHDRAWAL FROM THE CALIFORNIA MARITIME ACADEMY

Courses from which a student withdraws prior to "last day to drop with no grade reported" do not count toward units attempted or completed. Courses dropped after "last day to drop with no grade reported" are counted as units attempted but not completed.

Financial aid recipients are obligated to remain enrolled and pass a certain number of units. Upon a financial aid recipient's withdrawal from school prior to the end of the term, Cal Maritime is required by the federal government to calculate whether a return of financial aid funds is required. Students should refer to the Return Of Title IV Funds section below.

All financial aid recipients should speak to a financial aid counselor to discuss the impact of any proposed changes in enrollment such as dropping a course, repeating a course, or withdrawing from Cal Maritime inasmuch as any of these changes may impact a student's satisfactory academic progress and thus future eligibility for financial aid.

RETURN OF TITLE IV FUNDS (FEDERAL REQUIREMENT)

Federal Regulations, 34 CFR 668.22 require schools to calculate the amount of Federal financial aid earned by students who withdraw from an institution. This calculation, R2T4, must be performed for students who follow the school's formal withdrawal procedures and those who leave without formal notification, the "unofficial" withdrawals.

The purpose of R2T4 is to return to the federal financial aid programs any aid that is "unearned" by the student. These funds are returned FIRST by the institution and SECOND by the student/parent. The philosophy behind the order of return of funds is that since aid is disbursed to meet institutional charges, the campus had control over these funds. Funds disbursed to the student to meet other educationally-related expenses are not under the control of the institution.

Upon a financial aid recipient's withdrawal, Cal Maritime is required by the federal government to calculate, collect, and return a portion of federal financial aid grant or loan funds received by the student if the student has not completed 60% of the number of days in the complete courses taken.

The Registrar's office assigns the formal date of withdrawal. The portion of financial aid to be returned is determined by the percentage of financial aid not earned by the student. The percentage of unearned aid is calculated using this formula: the total number of calendar days in the semester that are not completed by the student divided by the total number of calendar days in the semester.

When a student leaves Cal Maritime during a term, the State University Grant and some scholarships may be prorated and decreased.

If the student withdraws without notifying Cal Maritime, the withdrawal date is the midpoint of the semester. As a result, some funds received may have to be repaid.

Unearned funds are credited to outstanding federal loan balances and grant programs in the following priority order:

1. Unsubsidized Stafford Loans
2. Subsidized Stafford Loans
3. Perkins Loans
4. PLUS Loans
5. Pell Grant
6. FSEOG
7. Other Title IV aid for which return is required

If the student owes unearned financial aid, the student has 45 days to enter into a repayment agreement with Cal Maritime and the U.S. Department of Education.

Cal Maritime does not have the authority to waive or write off the repayment requirement, regardless of the reason for the withdrawal, including extenuating circumstances such as illness, accident, or grievous personal loss.

A student who fails to return the unearned federal financial aid funds will be referred to the U.S. Department of Education for collection, and Cal Maritime may withhold permission to register, to use facilities, or to render services. Until such time that the repayment issue is resolved, the student's record will be "flagged" every time a student files any subsequent FAFSA. A student in repayment is ineligible for federal financial aid at any institution in the nation.

When a student leaves Cal Maritime during a term, the State University Grant and some scholarships may be prorated..

2013-2014 ESTIMATED COST OF ATTENDANCE UNDERGRADUATE STUDENTS LIVING ON-CAMPUS

Tuition and Fees*	\$6,536
Health Insurance**	\$1,206
Food and Housing	\$11,066
Books and Supplies	\$1,262
Travel	\$900
Personal/Miscellaneous	\$1,338
Loan Fees***	\$50
Total California Resident Budget	\$22,358

* Fees include Tuition (\$5472), Health Services Fee (\$680), Associated Student Body Fee (\$210), Health Facility Fee (\$14), Port Pass (campus ID) (\$30), and Instructionally Related Activity Fee (\$130). The figure listed above assumes full time enrollment (7 or more units).

** Health insurance is mandatory. If a student cannot verify appropriate health insurance coverage by the deadline established by the Student Health Center, a total of \$1,206 will be charged for enrollment in the campus health insurance plan. (The health insurance contract figure listed above is subject to change.)

*** Loan fees are a required component of the estimated cost of attendance. Federal Direct Subsidized and Unsubsidized Loans have an origination fee of 1%. The loan fees listed are an average based on Subsidized and Unsubsidized Loan borrowing activity for the 2013-2014 year.

The California State University makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial fee payments are made, to increase or modify any listed fees, without notice, until the date when instruction for a particular semester or quarter has begun. All CSU listed fees (e.g. tuition fees) should be regarded as estimates that are subject to change with the approval of the Board of Trustees.

In addition, the following fees may be assessed:

- first-year students (freshmen and transfer) must pay for uniforms (\$1,710 or \$1,838) and an orientation fee (\$350)
- students going on cruise or to study-abroad as required by the major must pay \$4,000
- non-California residents pay an additional \$372 per unit
- students obtaining a second baccalaureate must pay an additional \$1,266 per year
- students living off campus will have a slight variation of fees
- third-year students in licensed programs must pay an additional \$1,100 for a firefighting course

ACADEMIC REGULATIONS AND POLICIES

ACADEMIC AWARDS AND HONORS

Cal Maritime recognises matriculating students who have demonstrated academic excellence through the following programs:

PRESIDENT'S LIST

The President's List is published at the end of every semester to honor those students who have earned the highest academic achievement. For the spring semester, grades are calculated based on the academic semester — cruise and co-op grades are not included in this calculation. The student must meet the following criteria:

- have a minimum semester GPA of 3.75
- have no grade lower than a C
- have a minimum of 12 graded units (excluding CR grades)
- have no incomplete grades

DEAN'S LIST

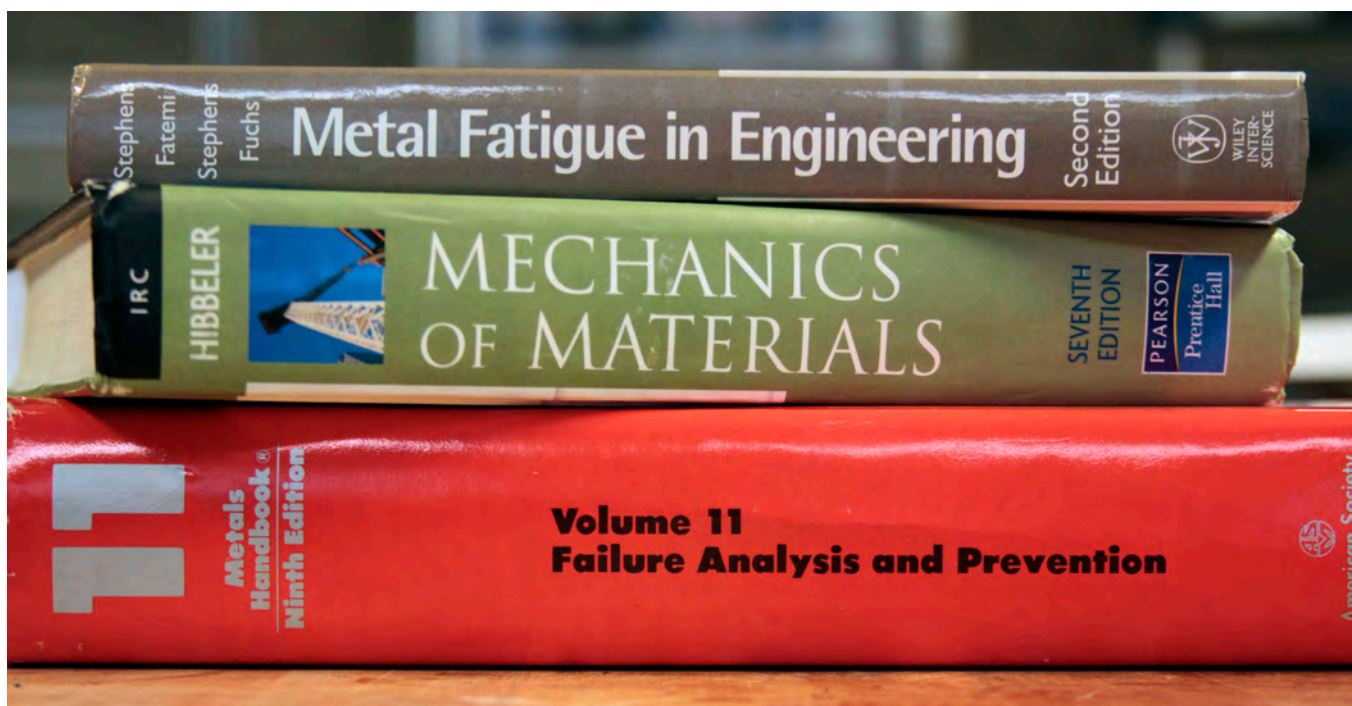
The Dean's List is published at the end of every semester to honor those students who have excelled academically. For the spring semester, grades are calculated based on the academic semester — cruise and co-op grades are not included in this calculation. The student must meet the following criteria:

- have a minimum semester GPA of 3.25
- have no grade lower than a C
- have a minimum of 12 graded units (excluding CR grades)
- have no incomplete grades

HONORS

At commencement, Cal Maritime recognizes academically-outstanding students who are receiving baccalaureate degrees with the distinction of academic honors. The honor is based on all academic degree work completed at Cal Maritime and indicates a high level of scholastic achievement:

- cum laude, 3.25–3.49 GPA
- magna cum laude, 3.50–3.74 GPA
- summa cum laude, 3.75–4.00 GPA



ACADEMIC DISHONESTY

POLICY STATEMENT

Cal Maritime functions best when its community members treat one another with honesty, respect, and trust. Because the quality of our graduates depends on the ethics they display, faculty members are expected to act promptly on suspected cases of academic dishonesty. The following policy is controlled by the California Code of Regulations Title 5 § 41301.

ACADEMIC DISHONESTY

Cheating and academic dishonesty include all student behaviors intended to gain unearned academic advantage or to interfere with another's academics by fraudulent or deceptive means.

Examples of inappropriate student conduct that can lead to the imposition of sanctions include, but are not limited to, the following (see Academic Senate Policy #547 Inappropriate Academic Conduct):

Taking Information

- copying graded homework assignments from another person
- unauthorized collaborative efforts on take home exams or graded homework
- looking at another student's paper during an examination
- unauthorized use of text materials or notes during an examination.

Providing Information

- giving one's work to another to be copied, paraphrased, or plagiarized
- giving answers to another student during an examination
- after having taken an examination, passing information concerning the examination on to students who still must take it
- providing a required writing assignment for another student
- taking an exam, writing a paper, or doing a project for another student

Plagiarizing

- unauthorized copying of all or parts of an article, paper, book, published work, or other proprietary source, including documents from the internet, and submitting all or parts of the article or paper as one's own work, without proper citations or attribution
- submitting a paper acquired from a research or term paper service
- failing to give credit for ideas, statements of fact, or conclusions derived by another author
- failure to use quotation marks when quoting directly from another source, whether it is a paragraph, a sentence, or part thereof (except in some informal writing assignments, such as reading responses or reader's logs/journals, when the instructor has specified different guidelines)
- retyping a paper written by another and handing it in for credit
- submitting a paper from house files for credit
- claiming credit for artistic work done by someone else, such as a musical composition, painting, drawing, photo, sculpture, or design

Other Examples of Inappropriate Academic Conduct

- conspiring with one or more fellow students to engage in any form of academically dishonest conduct
- lying to an instructor to improve one's grade
- having another student take one's exam or do one's computer program or lab experiment
- Submitting a paper that is substantially the same for credit in two different courses without the approval of both instructors
- altering a graded exercise after it has been returned, then submitting the exercise for re-grading
- removing tests from any location without the instructor's approval
- stealing exams or other course materials from an instructor or his or her agent
- stealing or altering an instructor's grade book or other academic records
- using spell-check or grammar-check software on a writing assignment when expressly prohibited from doing so
- accessing, changing, or using any information or data from a computer system to gain academic advantage for yourself or any other student.

GENERAL STATEMENT OF STUDENT RESPONSIBILITY

The student has full responsibility for both the content of academic assignments submitted for evaluation and the integrity with which all academic work submitted for evaluation has been done. Ignorance of an express rule regarding inappropriate student conduct does not excuse one from adhering to appropriate ethical standards in the completion of academic assignments. When in doubt as to the appropriateness of any action, students are to ask their instructors for clarification and guidance.

ACADEMIC PROCESS IN RESPONSE TO INAPPROPRIATE STUDENT ACADEMIC CONDUCT

Charges of inappropriate student academic conduct can be brought to the Chair of the Committee on Academic Integrity by an instructor, a student, or any employee of Cal Maritime. This person, if other than the instructor-of-record, must first discuss the matter with that instructor. The resultant protocols follow the policy of the Academic Senate, with the burden of proof on the person(s) bringing the charge of academic dishonesty, and with the student entitled to a hearing. (see Academic Senate Policy #547 Inappropriate Academic Conduct).

Copies of all documents pertinent to the charge should be appended to the statement of the instructor or person bringing the charge.

Committee hearings are closed to all except committee members, the charged student, the instructor, the person bringing the charge, and the charged student's advisor, witnesses, and other appropriate campus administrators.

COMMITTEE FINDINGS

The Chair of the Committee on Academic Integrity will deliver the committee's findings and its recommended sanctions to the involved student(s) and instructor(s), and the Provost and Vice President of Academic Affairs. The Chair of the committee will also forward a copy of the committee's findings directly to the Chair of the Discipline Review and Investigating Committee (DRIC). The DRIC is NOT to conduct separate or additional hearings on academic issues already adjudicated by the Committee on Academic Integrity. But the DRIC may initiate an inquiry and conduct hearings into whether the actions of individuals brought before the Committee on Academic Integrity also involve moral, ethical, leadership and character issues such as cheating, lying, stealing, breaking-and-entering, or other conduct unbecoming a cadet-in-training, and therefore also fall within the purview of the policies governing the DRIC.

IMPOSITION OF SANCTIONS

The Provost and Vice President of Academic Affairs will issue a letter to the involved student(s) setting forth the final disposition of the matter and the terms of any imposed sanctions, with copies sent to the Chair of the Committee on Academic Integrity and to the Student Conduct Coordinator for inclusion in the student's file.

STUDENT REBUTTAL AND APPEALS

Within three days of receipt of the final-disposition letter issued by the Provost, the charged student may submit a written rebuttal. The authority for review of the appeal and the final disposition of the case will belong to the President.

SANCTIONS

One or more of the following sanctions may be imposed upon any student whose conduct falls short of Cal Maritime's standards of academic integrity:

Probation

A period of time during which limitations on status may include, but are not limited to, loss of specified privileges with acknowledgment by the student that any additional breaches of academic integrity will result in additional, more severe sanctions being imposed.

Suspension

A mandated discontinuation of student status and temporary removal from Cal Maritime for a definite period of time.

Expulsion

A permanent, irrevocable termination of student status. Expulsion from one campus of the California State University extends to all other campuses within the system.

DENIAL OF ADMISSION OR READMISSION

Admission or readmission to Cal Maritime may be denied to any student found to have violated the provisions of Cal Maritime's policy on Inappropriate Student Academic Conduct (Section 41303 of Title 5, California Code of Regulations).

GOOD STANDING

Imposition of a sanction or denial of (or qualification placed on) admission or readmission means that a student is not considered to be in good standing for purposes of admission to any campus of the California State University system, for the period during which sanctions apply (Section 40601(g) of Title 5, California Code of Regulations).

RECORD OF DISCIPLINE

All actions involving probation, suspension, or expulsion shall be made part of the student's permanent academic record.

ACADEMIC STANDING

Students must maintain a cumulative GPA of 2.00 to be considered in good academic standing.(see section on Baccalaureate Degree Requirements for details). If students do not meet this standard, the following actions will ensue:

ACADEMIC PROBATION

If an enrolled student's cumulative GPA falls below 2.00, or if a student transfers into Cal Maritime with less than a 2.00 GPA from previous college coursework, the student will be placed on academic probation. Students on academic probation must meet with their academic advisor to choose appropriate courses in which to enroll. Students will be dropped from classes if they fail to do so. Except in extraordinary cases, students shall enroll in a maximum of 15 semester credits.

To improve their GPA, students on academic probation are expected to repeat, within the probationary term(s), specific courses in which grades of D, F, IC, WU or NC were previously earned.

Additionally, they are expected to complete a minimum of 12 units with no grades of F, and to earn a 2.00 semester GPA or raise their cumulative GPA above 2.00.

Students with a cumulative GPA below 2.00 will be allowed to continue on probation if their semester GPAs are at least 2.00, and they have completed 12 credits or more with no grades of IC, F or WU in any course taken. Students who fail to meet the above terms of probation will be academically disqualified. Except in extraordinary circumstances, students on academic probation for the spring semester must meet the terms of probation during the normal 15-week academic semester. Cruise or co-op grades at the end of the spring semester will not be used in the determination of a student's academic standing.

ACADEMIC DISQUALIFICATION

If, after a semester of academic probation, a student's cumulative GPA is still below 2.00 and the terms of probation are not met, the student will be academically disqualified. In addition, a student who has failed a course three times will be subject to academic disqualification. Students who have been academically disqualified will be notified by email, and by a letter sent to their official mailing address on record, as soon as this determination has been made. If a student feels there are extenuating circumstances that contributed to poor academic performance, an appeal must be made in writing to the Academic Dean (through the Registrar's office), within 10 days of the notification, explaining these circumstances. Written appeals will be reviewed by the Academic Dean and the department Chair within 10 working days of receipt.

READMISSION

An academically disqualified student may seek readmission to Cal Maritime, but not before one full semester has passed. Complete information on the readmission process may be found on the Registrar's office website. Application for readmission must be completed in full no later than October 1 for readmission to the spring semester, and April 1 for readmission to the fall semester. Any student out of attendance for more than 2 consecutive semesters must apply for readmission.

In no case will an academically disqualified student be allowed to participate in the annual Training Cruise, Commercial Cruise, or Co-ops.

In addition, students disqualified for a third failure of a course must successfully complete the course prior to readmission. Academically disqualified students may elect to enroll at Cal Maritime through Open University to register for courses in which grades of D, F, IC, or WU were earned.

Students readmitted after academic disqualification will be admitted under current requirements for graduation, unless they have remained in 'continuous attendance' at another accredited college for at least one semester (or two quarters) per academic year.

Students readmitted after academic disqualification will continue on probation, unless they have been able to raise their overall cumulative GPA above 2.00 through Open University or another accredited college. Students readmitted on academic probation must adhere to the terms of academic probation as described earlier.

ADMINISTRATIVE ACADEMIC PROBATION OR DISQUALIFICATION

A student may be placed on probation or may be disqualified by appropriate campus authorities for unsatisfactory scholastic progress regardless of cumulative GPA or progress points. Such actions shall be limited to those arising from repeated withdrawal, failure to progress toward an educational objective, and noncompliance with an academic requirement, and shall be consistent with guidelines issued by the Chancellor of the CSU.

The following reasons constitute grounds for being placed on administrative probation:

- withdrawal from all or a substantial portion of their courses in two successive terms or in any three terms
- repeated failure to progress toward a degree or other program objective, when such failure is due to circumstances within the control of the student
- failure to comply, after due notice, with an academic requirement or regulation that is routine for all students or a defined group of students

Students who do not meet the conditions for removal of administrative probation may be subject to further administrative actions, including administrative disqualification and dismissal.

ACADEMIC TRANSCRIPT POLICY

The California Maritime Academy has partnered with the National Student Clearinghouse for collecting orders for transcripts. Transcripts are processed and mailed typically within 3-10 business days after the request is received at the office of the Registrar. Visit the Registrar's office website, and select 'Transcripts' to initiate an order.

Students and alumni may request that transcripts are not sent until grades are processed for the current semester, or the degree has been posted.

Transcript requests will be cancelled for any student who has an outstanding obligation (e.g. financial holds) to Cal Maritime. Students will be informed of this cancellation and will be required to resubmit a new request once their outstanding obligations are resolved. Students' credit cards will not be charged for requests cancelled for this reason.

For additional information, contact the office of the Registrar at registrar@csum.edu or call 707-654-1200 between 8 am and 4 pm PST.

ADDING AND DROPPING OF COURSES

Students may add or drop courses up to a specific deadline in each semester.

ADDING A COURSE

During published registration periods, students may add a course to their schedule. Faculty approval may be required if course capacity has been reached or if students are requesting to be added from a waitlist.

DROPPING A COURSE

During published registration periods, students may drop courses online with no grade recorded on their transcript. Students are responsible for attending all courses for which they have registered. Non-attendance does not constitute a drop or withdrawal.

WITHDRAWALS

Withdrawals after the first two weeks of instruction and prior to the last three weeks of instruction may be allowed only for serious and compelling reasons (e.g. illness, accident, or death in the immediate family).

Students will be required to provide documentation or verification of their particular circumstances. Approval to withdraw from a course during this period must be granted by the course instructor, major department Chair, and Academic Dean.

Students may withdraw from no more than 18 semester units.

If withdrawal is approved, a grade of W will be posted on the student's academic transcript, but it will not be used in calculating GPA or progress points. Students withdrawing without a serious and compelling reason may receive a grade of WU in the course. Appeals may be made to the Provost and Vice President of Academic Affairs.

Withdrawals shall not be permitted during the final three weeks of instruction except in cases, such as accident or serious illness, where the cause of withdrawal is due to circumstances clearly beyond the student's control, and the assignment of an Incomplete is not practical.

CHANGE OF MAJOR

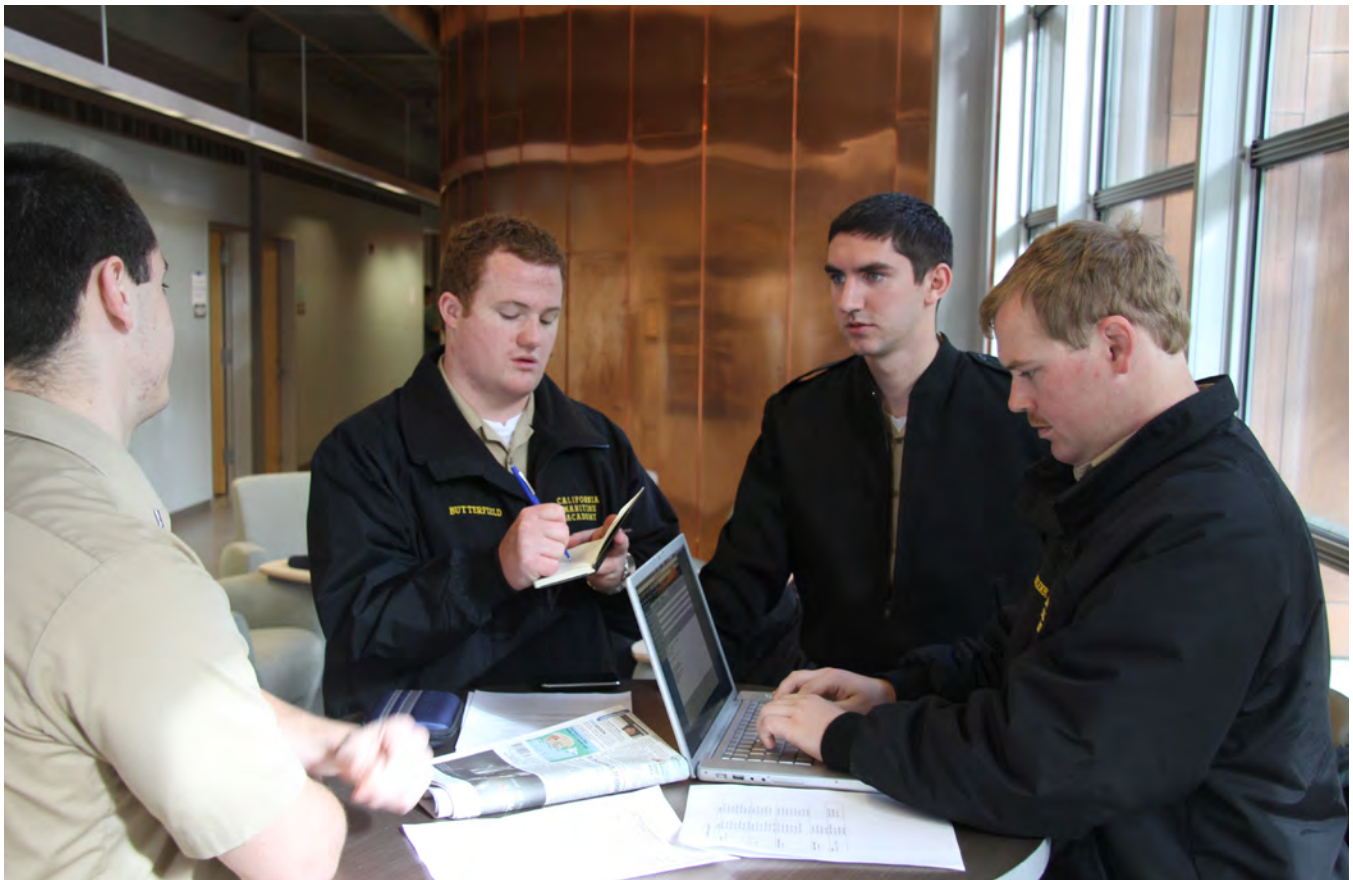
Students wishing to request a change of major are advised to refer to the guidelines on the Registrar's office website. Students must be in good academic standing for this approval to be granted.

ADDITIONAL COURSE GUIDELINES

COURSE CHALLENGE

Students may receive credit for courses (grade: CR) by passing challenge examinations developed at Cal Maritime. The following rules apply:

- students must demonstrate substantial knowledge and background in the areas they are challenging
 - approval must be obtained for each challenge from the instructor and department Chair. Applications are available at the Registrar's office
 - the instructor must be presented with a receipt for the required fee, which must be paid prior to the challenge examination.
- a course may be challenged only once
 - challenges will not be approved for courses in which any grade has been assigned, including F, IC, WU, or W.
 - challenges will not be approved for courses in which a student is currently registered, or in a semester in which a student has dropped the course to be challenged
 - challenges are not allowed in certain cases, such as the GWE Exam and certain STCW classes



REPETITION OF COURSES

Students may repeat a course only if they earned grade lower than a C in that course. Up to 16 semester units may be repeated with 'grade forgiveness' wherein the new grade replaces the former grade for the purpose of the calculation of the student's GPA. Although no longer used in GPA calculations, the previous grade remains on the student's academic transcript.

Students may repeat an individual course with grade forgiveness no more than two times. Grade forgiveness shall not apply to courses for which the original grade was the result of a finding of academic dishonesty.

Cal Maritime will permit students to repeat an additional 12 semester units with 'grade averaging'. In such instances, the grade after repeating shall not replace the original grade for GPA calculations. Instead, both grades shall be calculated into the student's GPA.

A student who receives a grade of F, WU, or IC in a course for the third time while at Cal Maritime will be academically disqualified (see sections on academic standing and on readmission).

Students repeating a course at another accredited college are expected to adhere to Cal Maritime's course transfer requirements. When a course is repeated elsewhere, the student will be given course credit toward meeting graduation requirements, and the overall GPA will be affected. However, the Cal Maritime GPA will not be affected.

CREDIT FOR WORK EXPERIENCE

Cal Maritime does not grant credit for work experience. If a student has such knowledge, the student may apply to challenge the appropriate course that parallels the work experience.

CREDIT BY EXAMINATION

Cal Maritime grants credit to those students who pass certain approved examinations. These include the Advanced Placement (AP) examination of the College Board, College-Level Examination Program (CLEP), International Baccalaureate (IB), and the CSU English Equivalency Examination (EEE).

COURSE COMPLETION BY EXTENSION OR CORRESPONDENCE

Students may complete a total of 24 semester units by extension or correspondence to meet the baccalaureate degree requirements at Cal Maritime. Only extension or correspondence courses from accredited institutions are acceptable. The rules for course transfer apply.

INDEPENDENT STUDY

An independent study course is substantial study above and beyond the regular offerings in the Cal Maritime academic catalog. One to three units of credit, determined prior to registration, will be granted for independent study. The student must arrange with a faculty member to be the student's independent study advisor. Grading is typically by letter grade, although the student may request a CR/NC grading basis. An approved application for Independent Study must be on file in the Registrar's office by the end of the normal add period.

INDIVIDUAL STUDY

Individual study applies to any course listed in the Cal Maritime academic catalog but not offered in a particular semester. In very rare circumstances, a student may petition an instructor to offer a course that falls into this category. The department Chair and instructor must approve the individual study. An approved application for individual study must be on file in the Registrar's office by the end of the normal add period.

COURSE TRANSFER AND ACADEMIC CLASS LEVEL

COURSE TRANSFER

The Associate Registrar or designee will be responsible for approval of course transfer. Appeals can be made to the department Chair.

A student may take a course concurrently at another regionally accredited college if the course is established as equivalent and approval is made prior to enrollment. The student may be expected to provide a syllabus and other information about the equivalent course to initiate the approval. The equivalent course must carry credit equal to or greater than the course offered at Cal Maritime. The student must have an official transcript sent to the Registrar's office upon completion of the course, regardless of the grade earned.

Units and grades earned in transferable courses completed at other colleges are not used in calculating the campus GPA but are included in the student's overall GPA.

ACADEMIC LEVEL

Students are classified according to the number of overall units of baccalaureate-level course work completed (all college-level work, including that at Cal Maritime) for purposes of financial aid determination. Academic level distinctions are not applicable to watchstanding, priority registration, housing, graduation, or corps standing.

Academic level is calculated as follows:

Freshman	0–29.5 units
Sophomore	30–59.5 units
Junior	60–89.5 units
Senior	90 or more units

FACULTY ADVISORS

Faculty advising is necessary for academic success. Students must consult with their advisors in any of the following cases:

- registering for courses
- adding courses
- taking an overload
- having been placed on academic probation

GRADING SYSTEM

The quality of a student's work is measured by a system of grades utilizing the traditional A–F grading system. The following grades will be used in evaluating student performance, including appropriate participation in the learning experiences as well as in formal testing.

LETTER GRADES

LETTER SCALE	DEFINITION
A+, A, A-	Performance has been of the highest level, showing sustained excellence.
B+, B, B-	Performance has been good.
C+, C, C-	Performance has been adequate, satisfactorily meeting the course requirements.
D+, D, D-	Performance has been less than satisfactory.
F	Performance has been poor, such that course requirements have not been met. poor, such that course requirements have not been met.
WU	Withdrawal Unauthorized. Equivalent to an "F" (see section B: Grade Explanations).
IC	Incomplete Charged. Equivalent to an "F" (see section B: Grade Explanations)
W	Withdrawal. Student may withdraw from no more than 18 semester units (see section B: Grade Explanations).
CR	Credit. A credit grade equates to a grade of "C" or higher (see section B: Grade Explanations); also used for course challenges.
NC	No Credit. A no credit grade equates to a grade below "C" (see section B: Grade Explanations).
AU	Audit. An AU earns neither academic nor degree credit (see section B: Grade Explanations).
I	Incomplete Authorized. Course must be completed by the sixth week of the following semester (may be extended in extraordinary cases).
RD	Report delayed.

GRADE EXPLANATIONS

- **Withdrawal Unauthorized:** The WU grade indicates that an enrolled student did not withdraw from the course prior to the established deadline, and also failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities were insufficient to make normal evaluation of academic performance possible. For purposes of GPA and progress point computations, this grade is equivalent to an F. It is the student's responsibility to formally withdraw from a course for which they have registered but have never attended or have stopped attending.
- **Incomplete Charged:** The IC grade may be used when a student, who received an authorized incomplete (I), has not completed the required coursework within the allowed time limit. The IC replaces the I and is counted as an F for GPA and progress point computation.
- **Credit/No Credit courses in general:** Some courses are offered *only* on a CR/NC basis. Grades of credit or no credit are neutral to the calculation of the student's GPA even if the final grade is NC.
- **Credit/No Credit courses required for graduation:** Some courses required for graduation are offered only on a credit/no credit basis. If the student's grade in these classes is NC, the course must be repeated until the CR grade is earned.
- **Credit/No Credit option:** A CR/NC grade option may be selected by the student in courses for which the A-F system is the norm. But no course that is necessary to fulfill a student's graduation requirement may be taken on a CR/NC basis except as described above.
- The following rules apply when a student selects a CR/NC grading option when the course is not normally offered on that basis:
 - the student must submit an application to the Registrar's office, which must be approved by the course instructor and the student's department Chair
 - the deadline for applying for CR/NC grading is the fifth day of the applicable semester
 - once the application for CR/NC grading has been made, the student may not change the grading option for that course
 - CR/NC is not used in the computation of the student's semester or cumulative grade point average. An application for the credit/no credit grading option can be obtained in the Registrar's office.
 - In the case of remedial courses (EGL 001 Introduction to Composition, EGL 105 English as a Second Language, and MTH 001 Intermediate Algebra), the grade awarded must be on an A, B, C, NC basis. If a student receives a grade lower than a C, a grade of NC will automatically be awarded. Remedial courses carry units of credit that apply to the student's unit loads for a given semester but do not apply toward graduation requirements.
- **Audit option:** An auditor is a student who enrolls in a course for informational purposes only. A student must petition the Registrar's office to audit a class. Enrollment as an auditor is subject to permission of the instructor. Enrollment of auditors shall be permitted only after students otherwise eligible to enroll on a credit basis have had an opportunity to do so. Auditors are subject to the same fee structure as credit students and regular class attendance is expected. However, examinations and assignments are not mandatory.

Once enrolled as an auditor, a student may not change to credit status unless such a change is requested before the last day to add classes in that term. Likewise, a student who is enrolled for credit may not change to an auditor after the last day to add classes. An AU grade for the audited course will appear on the student's transcript. An AU earns neither academic nor degree credit.

- **Incomplete authorized:** The grade I indicates that a portion of required course work has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements which must be satisfied to remove the I grade. A final grade is assigned when the work agreed upon has been completed and evaluated.

An I grade must normally be made up by the end of the sixth week of the next academic semester unless the student requests an extension from the instructor. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an I being converted to an IC grade (which is equivalent to an F).

- **Withdrawal:** The grade W indicates that the student was permitted to withdraw from the course after the fourth week of instruction with the approval of the instructor and of the appropriate campus officials. It carries no connotation of quality of student performance and is not used in calculating the student's GPA or progress points. Students may withdraw from no more than 18 semester units.

GRADE POINT AVERAGE COMPUTATION

Grade point averages are determined by dividing the total number of weighted grade points earned in the semester by the total number of graded units attempted in the semester. A weighted grade point is determined by multiplying the grade points earned in the course by the number of units in the course. The following grade points are assigned for each equivalent letter grade:

A,A+=4.0	B-=2.7	D+=1.3
A- =3.7	C+=2.3	D=1.0
B+ =3.3	C =2.0	D-=0.7
B =3.0	C-=1.7	F/WU/IC = 0.0

UNITS

A semester unit at Cal Maritime assumes a one-hour class per week class for a period of 15 weeks. It is the standard quantity used for measurement of college and university work.

- **Lecture:** One unit equals one hour of classroom work per week in most classes, predominately those of the lecture or lecture-discussion format. It is generally assumed that a student spends two hours of outside preparation for each hour spent in such classes.
- **Laboratory:** In laboratories, there are two or three hours a week for each unit, depending on outside lab preparation. In specialized training and performance courses, such as sea training, ship operations, and intercollegiate athletics, there are more than three hours per week required per unit.

MISCELLANEOUS ACADEMIC POLICIES

CREDIT HOUR

As of July 1, 2011 federal law (Title 34, Code of Federal Regulations, sections 600.2 and 600.4) requires all accredited institutions to comply with the federal definition of the 'credit hour'. For all CSU degree programs and courses bearing academic credit, the credit hour is defined as "the amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

- One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or
- At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution, including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours."

A credit hour is assumed to be a 50-minute period. In courses in which "seat time" does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement.

NORMAL COURSE LOAD

Twelve (12) to twenty (20) units constitute a normal course load at Cal Maritime. A student wishing to enroll in more than 20 units (15 units when on academic probation) must have the approval of his or her academic advisor and department Chair. A student receiving financial aid must take at least 12 units during the fall or spring semester to be considered a full time student.

REGISTRATION PROCEDURES

The office of the Registrar handles all forms, procedures, and deadlines for registration. Registration for the fall normally occurs in the middle of the previous spring semester, and registration for the spring/cruise semester occurs in the middle of the previous fall.

All students must see their academic advisor prior to registration. Students are not permitted to attend any classes for which they are not formally registered.

Priority registration is offered to currently enrolled students by class, based on date of entry. Registration typically extends over a two-week period. Currently enrolled students not registering by the end of the registration period are subject to a \$100 late fee and will be prevented from registering until the first day of the semester.

Incoming freshmen, and students accepted for readmission, register in a separate timeframe and after currently enrolled students have registered.

CLASSROOM ATTENDANCE

Students are expected to attend all classes unless an absence is properly authorized. It is up to the course instructor to establish an appropriate attendance policy, except for those courses that have outside agency requirements -- STCW-approved courses. Students failing to adhere to the attendance requirements established by the course instructor or Cal Maritime may be dropped from the class.

GRADE CHANGE PROCEDURES

Institutional academic processes leading to the awarding of grades cannot be completely error free. Events can transpire which suggest to a student that the grade he or she was assigned for a particular course may be inappropriate.

Academic Senate Policy #546 Student Originated Request for Change of Grade outlines the procedures and instructions to be followed should a student wish to challenge the appropriateness of a grade assigned for a specific course. A student must present the completed Form SP 546-1 Student Originated Request for Change of Grade to the Chair of the Committee on Academic Integrity within the first six weeks of the term following the term in which the grade in question was assigned.

STUDENTS CALLED TO PUBLIC SERVICE

Students called to or engaged in public service for reasons beyond their control will not lose registration priority, academic credit, fees, or degree status. Such activities may include military service, fire fighting, public security, or the like. To accommodate students, Cal Maritime will accept withdrawals under such circumstances at any point throughout the semester.

Students may be granted an extended leave of absence for up to two years for engagement in public service beyond their control. If currently enrolled, they must complete a leave of absence form with the Registrar's office. An approved leave will ensure that they retain their catalog rights and that they can register for subsequent terms without reapplying for admission.

The federal government determines student loan grace and deferment provisions based on the circumstances of involvement in a particular public service. Should the federal government modify its regulations governing various loan programs, Cal Maritime will adopt those modifications for its students.

WITHDRAWAL FROM SCHOOL

Students wishing to withdraw from Cal Maritime within the first two weeks of instruction may do so by completing the required paperwork in the Registrar's office. No grade for the semester of withdrawal will be recorded on the student's transcript.

Students having a serious and compelling reason to withdraw after the first two weeks of instruction may do so without penalty. Approval to withdraw during this period must be granted by the student's course instructors, major department Chair, and Academic Dean. If a petition is approved, a grade of W will be posted on the student's academic transcript. Students who have been granted such approval to withdraw must still follow all established procedures for formal withdrawal from Cal Maritime.

Students withdrawing after the first two weeks of instruction without a serious and compelling reason may receive a grade of WU in all classes.

Withdrawal from school with a grade of W during the final three weeks of instruction is permitted only when the cause of the withdrawal is clearly beyond the student's control and assignment of an I (Incomplete) is not practical.

Students may either request a leave of absence for up to one year or withdraw if their return within one year is not anticipated. They are responsible for notifying the Registrar's office during the semester or during any break if they do not plan to return to school for the upcoming semester.

ACADEMIC RENEWAL

A maximum of one academic year of coursework with unsatisfactory grades may be excluded from credit and grade point consideration if course repetition is inappropriate (e.g. the major has changed, or the courses are not offered at Cal Maritime).

Removal of previous work from degree consideration under the above circumstances is subject to the all of the following provisions:

- the student has requested the action formally and has presented evidence that the work completed in the term(s) under consideration is substandard and not representative of present scholastic ability and level of performance
- at least five calendar years must have elapsed since the course work was attempted
- from when the most recent work to be disregarded was completed, the student has subsequently completed, at the campus, 15 semester units with at least a 3.0 GPA; 30 semester units with at least a 2.5 GPA; or 45 semester units with at least a 2.0 GPA
- the student provides evidence that past performance was due to extenuating circumstances and that additional enrollment would be necessary to qualify for a degree if the request were not approved
- when such action is taken, the student's permanent academic record shall be annotated so that it is evident that NO work taken during the disregarded term(s), even if satisfactory, may apply toward baccalaureate requirements. However, all work must remain legible on the record to ensure a true and complete academic history



BACCALAUREATE DEGREES, PROGRAMS AND REQUIREMENTS

BACCALAUREATE DEGREES

Cal Maritime awards the Bachelor of Science and the Bachelor of Arts degrees.

BACHELOR OF SCIENCE DEGREE MAJORS:

- Business Administration
- Facilities Engineering Technology
- Marine Engineering Technology
- Marine Transportation
- Mechanical Engineering

BACHELOR OF ARTS DEGREE MAJOR:

- Global Studies and Maritime Affairs

MINORS

Students wishing to declare a minor will complete a coherent program of courses in some field other than their major. A completed minor will be noted on the student's transcript. For descriptions of minors, see the sections in this catalog of the various departments. The following minors are available:

ABS School of Maritime Policy and Management

- Business Administration
- Global Studies and Maritime Affairs
- Law

Department of Mechanical Engineering

- Power Generation

Department of Naval Science

- Naval Science

Department of Sciences and Mathematics

- Marine Science

MINOR REQUIREMENTS

The following requirements apply for all minors:

- Minors consist of at least 15 units
- No coursework used to fulfill minor requirements may simultaneously fulfill requirements toward another minor or toward courses that are identified on the student's curriculum sheet as a "Course in Major"
- All courses used to complete the minor must be completed with at least a C grade
- At least nine of the units must be completed at Cal Maritime

LICENSES AND CERTIFICATIONS

Cal Maritime offers licensed programs for the Third Mate or Third Assistant Engineer license of the United States Coast Guard. Licenses are issued at graduation upon successfully completing the appropriate baccalaureate degree and passing the United States Coast Guard licensing examination.

Engineering students who pass the Fundamentals of Engineering examination receive an Engineer-In-Training Certificate.

Students completing ET 342 Refrigeration and Air Conditioning coursework are eligible to take a written exam for professional certification as EPA Universal Technicians.

MILITARY TRAINING OPTIONS

At Cal Maritime, all students are members of the Corps of Cadets. They are required to wear uniforms, attend formations and stand watch. However, there is no armed service obligation requirement. Military options are available such as ROTC and the Strategic Sealift Officer Program (see section on Military Opportunities).

BACCALAUREATE DEGREE REQUIREMENTS

CUMULATIVE GRADE POINT AVERAGE FOR GRADUATION

A candidate for a Bachelor of Science or Bachelor of Arts degree at Cal Maritime must have completed the academic program with a cumulative GPA of not less than 2.00 in each of three separate assessments:

- Overall: all baccalaureate-level units completed (all college-level work, no matter what the institution, including Cal Maritime);
- Campus: all units completed at Cal Maritime
- Major: all units completed in the major.

REQUIREMENTS IN UNITED STATES HISTORY, CONSTITUTION AND AMERICAN IDEALS

The California Code of Regulations requires that students demonstrate competencies in U.S. History, the U.S. Constitution, and California State and local government for graduation. These requirements may be satisfied through the completion of one course in U.S. government and one course in U.S. history.

RESIDENCY REQUIREMENTS

A student must spend no fewer than three years at a state or federal academy to be eligible for a U.S. Coast Guard license (46CFR Ch II, Part 310). To be eligible for a degree from Cal Maritime, a student must complete a minimum of 30 units of upper division coursework at this institution.



GRADUATION REQUIREMENT IN WRITING PROFICIENCY

THE GRADUATE WRITING EXAMINATION (GWE)

The Graduation Writing Assessment Requirement (GWAR) requires that all CSU students demonstrate competence in written communication before they are granted a baccalaureate degree. At Cal Maritime, all students who have achieved junior standing and have completed EGL 100 English Composition and at least 60 units of academic coursework must either take EGL 300 Advanced Writing or challenge said course by successfully completing the Graduate Writing Examination (GWE). Students who pass the GWE will receive credit for EGL 300.

The GWE may be attempted twice, but students who fail a second time must take EGL 300. The class and the exam are offered every semester. Students who sit for the GWE will be charged a fee.

Please note that according to the Chancellor's Office Executive Order 665 of 1997, "Students shall be matriculated at the CSU campus where they satisfy the Graduation Writing Assessment Requirement (GWAR)." Unless a student has previously met this requirement at another CSU campus before transferring to Cal Maritime, he or she must satisfy the GWAR at Cal Maritime.

Students taking the GWE read a passage of roughly 600 to 800 words and use that reading as a basis for their written commentary. Students are expected to answer a question (or questions) in a 700-word essay with clarity, quality of thought, sound writing mechanics and completeness, as well as unity and development of concepts. Students have three (3) hours in which to complete the handwritten exam and they are allowed to use dictionaries and thesauri. Non-native English speakers and students with documented disabilities will receive special accommodation, upon request.

For more information about the GWAR or the GWE at Cal Maritime, contact Dr. Julie Chisholm at jchisholm@csum.edu.

U.S. COAST GUARD LICENSE EXAMINATION

The U.S. Coast Guard will issue a license as Third Mate or Third Assistant Engineer to license-track graduates of Cal Maritime who

- are U.S. citizens
- complete the licensed program
- meet the standards established by the U.S. Coast Guard, and
- pass the license examination

To be eligible to take the license examination, a student must:

- apply to the U.S. Coast Guard to sit for the license exam in the last semester of attendance
- pay appropriate U.S. Coast Guard fees, and
- complete all Cal Maritime STCW/USCG license requirements

For further information, contact the STCW Coordinator through the Registrar's Office.

SEA TRAINING REQUIREMENTS

Three 60-day training cruises, established by the U.S. Coast Guard, are required of all students seeking a license as Third Mate or Third Assistant Engineer. During the training periods students put the skills and knowledge they have been taught in the classroom to the ultimate test—actual practice. The entire operation of the *Training Ship GOLDEN BEAR* is performed by students, with licensed faculty officers acting in an advisory capacity. First-year students do the more elementary tasks, while third-year students perform all the duties of ship officers.

The sea training is designed to comply with the International Maritime Organization's Standards of Training, Certification and Watchkeeping of Seafarers, (IMO/STCW) 1995. Additionally, the sea training is designed to provide all students with an understanding of the maritime industry and the requirements of living in a ship environment.

The cruises will be accomplished in the following order on the following vessels: training ship, commercial ship, and training ship. This program is part of the academic curriculum and carries credit for graduation.

Transfers from maritime academies of other states may receive credit for each cruise completed within the same program, as long as the sea training was of 60 days or more and the STCW requirements covered on the cruises were completed.

Transfers from the U.S. Merchant Marine Academy must complete two cruises on board Cal Maritime's training ship and will receive credit for only 60 days of sea time inasmuch as the USMMA's training is on a commercial ship.

Navy or unlicensed merchant marine sea time may not meet the sea training requirements of Cal Maritime as required by the U.S. Coast Guard.

A student's major will normally determine the type of sea training. The required amount of sea training for each major is as follows:

- Business Administration / International Business and Logistics - one sea training or international experience
- Facilities Engineering Technology - one sea training experience as an engineering student
- Global Studies and Maritime Affairs - one sea training or international experience
- Marine Engineering Technology - three sea training experiences as an engineering student
- Marine Transportation - three sea training experiences as a marine transportation student
- Mechanical Engineering (license) - three sea training experiences as an engineering student
- Mechanical Engineering (non-license) - one sea training experience

COMMENCEMENT AND THE AWARDING OF DEGREES AND LICENSES

In order for a degree candidate to participate in commencement he/she must be able to complete all academic requirements before the beginning of the following fall semester. Students are expected to apply for graduation by the deadlines published on the office of the Registrar's website. The Registrar's office will then determine eligibility to participate in commencement. The degree and any appropriate license will be awarded upon completion of all degree requirements.

**ACADEMIC DEPARTMENTS
AND PROGRAMS**

ATHLETICS

FACULTY AND STAFF

Director of Athletics and Recreation:

Marv Christopher

Assistant Athletic Director:

Patrick Hollister

Director of Sailing, Varsity Sailing Coach:

Susan "Charlie" Arms

Sports Coordinator and Head Men's Basketball Coach:

Bryan Rooney

Head Athletic Trainer:

Jeffrey S. Ward

INTERCOLLEGIATE ATHLETICS

Intercollegiate athletics at Cal Maritime provides an active link with other college campuses and is an important part of our co-curricular education program. A variety of sports are available for men and women. Men's teams compete in basketball, crew, golf, rugby, sailing, soccer, and water polo. Women's teams compete in basketball, crew, sailing, and water polo.

The athletic teams are known as the Keelhaulers, an old sailing term. This unique name has generated considerable publicity for Cal Maritime over the years, including a listing as one of the top 25 collegiate nicknames in the country.

Approximately a fourth of the student body participates in one or more intercollegiate sports each year. In order to be eligible, student athletes must maintain a minimum cumulative GPA of 2.0 or higher.

A new state-of-the-art physical education complex is under construction and is scheduled to open in fall 2014. The Bodnar athletic field has been renovated, with the addition of a turf field, two-lane running track, and updated lighting.

In addition to a staff of dedicated coaches, Cal Maritime has a National Athletic Trainers' Association (NATA) certified athletic trainer who oversees a recently-expanded training room with state-of-the-art equipment.

Cal Maritime is a member of the National Association of Intercollegiate Athletics (NAIA) and competes as a charter member of the Far West region of the California Pacific Conference. The Keelhaulers are also part of the Collegiate Water Polo Association, Western Intercollegiate Rowing Association (WIRA), Pacific Coast Intercollegiate Yacht Racing Association (PCIYRA), and USA Rugby.



PHYSICAL EDUCATION PROGRAM

As time and academic schedules allow, students participate in a variety of physical education classes in swimming, sailing, weight lifting, and the martial arts.

Classes are also offered to help students improve their quality of life, focus on nutrition, fitness, and weight management. In these classes goals are set and students receive specialized, tailor-made counseling from their instructors.

INTRAMURALS AND RECREATION

Intramural and recreational programs have traditionally been an important part of life at Cal Maritime. Activities include competition between divisions in flag football, basketball, indoor soccer, volleyball, and softball.

Individual tournaments are held in a variety of sports, including tennis, badminton, table tennis, swimming, weight lifting, and fun runs.

Available facilities include: playing fields, sports courts, an indoor 25-meter swimming pool, a gymnasium for basketball, badminton, and volleyball, an Olympic free-weight room, weight machine rooms, and a cardio-aerobic exercise room for circuit training.

The indoor heated pool is available to students several hours a week with a certified lifeguard present, as is the Olympic free-weight room for use with supervision.

During the annual summer training cruises aboard the *Training Ship GOLDEN BEAR*, students and staff have access to a well-equipped state-of-the-art exercise and weight room equipped with a variety of bicycle and rowing ergometers and weight machines, along with mirrors and a TV monitor for viewing exercise videos.

CLUB SPORTS

The director of Athletics and Recreation also oversees clubs sponsored by the Associated Student Body. These include lacrosse, volleyball, cycling, and fencing.



PHYSICAL EDUCATION AND ATHLETICS COURSES

The following courses are offered by the department of Athletics:

- PE 100.** Beginning/Intermediate Swimming
- PE 111.** Sports Conditioning
- PE 114.** Weight Management Through Exercise
- PE 120.** Weight Training
- PE 125.** Martial Arts
- PE 135.** Drill Team and Color Guard
- PE 160.** Beginning Sailing–Basic Keelboat
- PE 165.** Sail Training for the Merchant Marine Reserve
- PE 185.** Study Abroad Elective
- PE 260.** Intermediate Sailing
- PE 385.** Study Abroad Elective
- PE 390.** Independent Study
- PE 395.** Special Topics

INTERCOLLEGIATE SPORTS

Students are required to register in the appropriate sport and fill out the necessary medical forms prior to participation. All student athletes are required to maintain a minimum cumulative GPA of 2.0. Participation is subject to the approval of the coach.

The following courses are offered by the department of Athletics:

- PE 210.** Intercollegiate Soccer
- PE 225.** Intercollegiate Water Polo (Men)
- PE 226.** Intercollegiate Water Polo (Women)
- PE 230.** Intercollegiate Sailing
- PE 235.** Intercollegiate Crew (Men)
- PE 236.** Intercollegiate Crew (Women)
- PE 240.** Intercollegiate Basketball (Men)
- PE 241.** Intercollegiate Basketball (Women)
- PE 250.** Intercollegiate Golf
- PE 255.** Rugby
- PE 270.** Intercollegiate Cross Country (Women)
- PE 271.** Intercollegiate Cross Country (Men)



CULTURE AND COMMUNICATION

FACULTY

Professors:

Graham W. Benton (Chair); Kathryn D. Marocchino

Associate Professors:

Julie K. Chisholm

Assistant Professors:

Colin D. Dewey; Amy C. Parsons

Lecturers:

Elisabeth A. Carmichael; Natalia Clarke;
Christopher L. Frick; Zachary D. Gordon; Linda J. Guo;
Robert D. Manheimer

Professor Emeriti:

Bunny Paine-Clemes, A. René Viargues

The department of Culture and Communication hosts Cal Maritime's writing program, foreign language offerings, and courses that have traditionally been hosted by humanities and arts departments. The writing program is an integral component of the ABS School of Maritime Policy and Management, and it provides CSU depth and breadth requirements in General Education areas A, C, and E.

The department serves Cal Maritime's mission through its commitment to intellectual learning. To be successful and enlightened citizens in today's world, students must learn to understand other cultures, whether through speaking a foreign language or studying another culture's literature, beliefs, arts, and institutions. The student learning objectives in the study of culture are to:

- develop global awareness and international preparedness through learning about the cultures, ethnic groups, and languages of other peoples and civilizations, and through direct participation with these cultures

- cultivate affective and cognitive faculties through studying great works of the human imagination; establish relevancy between art and one's personal values, ethical behavior, and aesthetic judgment; read and think critically about psychological, social, aesthetic, and cultural processes and how they are constructed and articulated within a variety of human institutions

Students must also learn to communicate clearly, whether in English or another language, with those whose assumptions may be very different from their own. To write and speak well are the hallmarks of an educated person. The objectives of the study of communication are to:

- write and speak effectively, with emphasis on mechanics, content, organization, purpose, audience awareness, and appropriate documentation style
- use print and online research tools needed to support oral and written communication

In addition to an interdisciplinary commitment to cultural awareness and communication, this program also strives to instill the following habits, traits, and affective dimensions:

- learn independently and take responsibility for one's own learning, exhibit intellectual curiosity, develop a commitment to lifelong learning and growth, and make judicious use of mentors, teamwork, and other resources where needed
- use ethical reasoning to foster self-awareness, truthfulness, integrity, and service to the community
- cultivate successful attitudes, such as self-confidence, self-discipline, respect for self and others, and cooperation with a group or team
- commit to critical and creative thinking and expression and be able to apply these skills flexibly to new situations

CULTURE AND COMMUNICATION COURSES

The following courses are offered by the department of Culture and Communication:

COMMUNITY SERVICE LEARNING

- CSL 120.** Community Service Learning
- CSL 185.** Study Abroad Elective
- CSL 210.** Dying: The Final Stage of Living
- CSL 385.** Study Abroad Elective
- CSL 390.** Independent Study
- CSL 395.** Special Topics

ENGLISH AND COMMUNICATION

- EGL 100.** English Composition
- EGL 110.** Speech Communication
- EGL 185.** Study Abroad Elective
- EGL 200.** Introduction to Literature
- EGL 220.** Critical Thinking
- EGL 300.** Advanced Writing
- EGL 305.** Twentieth-Century American Literature
- EGL 310.** U.S. Literature of the Sea
- EGL 315.** World Literature of the Sea
- EGL 320.** Literature of the Fantastic
- EGL 325.** Creative Writing
- EGL 330.** Literature and Psychology
- EGL 385.** Study Abroad Elective
- EGL 390.** Independent Study
- EGL 395.** Special Topics

HUMANITIES

- HUM 100.** Humanities
- HUM 101.** Perspectives in Culture: The Ancient World Through the Renaissance
- HUM 102.** Perspectives in Culture: Post-Renaissance to the Present
- HUM 110.** World Culture Journeys
- HUM 130.** Creativity
- HUM 185.** Study Abroad Elective
- HUM 300.** Art of the Cinema
- HUM 305.** Comparative World Religions
- HUM 325.** Globalization of Culture
- HUM 385.** Study Abroad Elective
- HUM 390.** Independent Study
- HUM 395.** Special Topics
- HUM 400.** Ethics

LANGUAGES

- LAN 110.** Spanish I
- LAN 115.** Spanish II
- LAN 120.** Chinese I
- LAN 125.** Chinese II
- LAN 185.** Study Abroad Elective
- LAN 385.** Study Abroad Elective
- LAN 390.** Independent Study
- LAN 395.** Special Topics

PERFORMING ARTS

- PA 185.** Study Abroad Elective
- PA 385.** Study Abroad Elective
- PA 390.** Independent Study
- PA 395.** Special Topics

ENGINEERING TECHNOLOGY

FACULTY

Associate Professor:

Jonathan Fischer

Assistant Professors:

Terrance Mancilla; Dinesh Pinisetty; Michael Strange

Maritime Vocational Instructor IV:

Michael Andrews; Lyle Cook; Robert Jackson (Chair)

Maritime Vocational Instructor II:

Scott Green; John Rodgers

Maritime Vocational Lecturers:

Stan Hitchcock; James McCarthy; Patrick Morris;
Douglas Rigg

Lecturers:

Michael S. Kazek; Douglas O'Brien

Emeritus Faculty:

George N. Christodoulou; Albert S. McLemore

The department of Engineering Technology offers two unique degree programs: Facilities Engineering Technology and Marine Engineering Technology. Both programs share a common educational philosophy that supports the four-points of Cal Maritime's mission: intellectual learning, applied technology, leadership development, and global awareness.



Intellectual learning is achieved in the classroom, beginning with a foundation in mathematics and the physical sciences, and progressing to the engineering sciences of materials, solid and fluid mechanics, thermodynamics, electricity, electronics, system controls and power engineering. General education courses in written, oral, and digital communications, humanities and social sciences round out the curriculum.

Engineering laboratories, power plant simulators, sea training and industry internships afford students the opportunity to apply the principles of engineering technology in real-world operations and maintenance. Other practical competencies are attained in manufacturing processes through coursework in engineering graphics, machine shop, and welding.

Students gain practical experience as leaders in small working groups in the classroom, laboratory, and power plant simulators, and also as members of watch teams aboard ship. Leadership skills may be further developed through active participation in the Corps of Cadets, sport teams, and campus clubs.

Voyages throughout the Pacific Rim aboard the *Training Ship GOLDEN BEAR*, and international exchange programs, afford the students opportunities to visit foreign lands and experience cultures around the world. In order to foster a responsible approach to environmental stewardship, Engineering Technology coursework explores advanced engine technologies for emission abatement, alternative fuels and renewable energy resources.

Graduates of the Facilities Engineering Technology and Marine Engineering Technology programs receive a Bachelor of Science degree accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET. Marine Engineering Technology graduates are also certified in the STCW competencies for Officers-in-Charge of the Engineering Watch. Through the practical training, leadership development, and qualifying professional examinations included in both curricula, graduates of the two Engineering Technology majors are "work ready" upon graduation.

FACILITIES ENGINEERING TECHNOLOGY (FET) MAJOR

The Facility Engineering Technology (FET) major provides an undergraduate education for industrial engineers employed in large-scale facilities; commercial buildings, power plants and manufacturing facilities. The curriculum provides a foundation in the fundamentals of mechanical and electrical systems engineering, as well as practical training in the operation and maintenance of real-world commercial and industrial facilities. The FET program has the following educational objectives:

- graduates will have the knowledge and ability to analyse, design, and develop systems and processes that support the effective operations of facilities
- graduates will have the knowledge and ability to manage and lead technical activities in the facilities and power industries
- graduates will have the knowledge and ability to function effectively as leaders on professional teams
- graduates will have the knowledge and ability to communicate with effective speaking, writing, and presentation skills, including the ability to put together a compelling argument
- graduates will demonstrate a respect for professional, ethical, and social issues, and have a commitment to safety, quality and productivity

The FET curriculum includes three 60-day practical training experiences: one sea training period aboard the *Training Ship GOLDEN BEAR*, and two industry co-operative educational opportunities. The FET program also requires the satisfactory completion of a qualifying examination administered by the Association for Facilities Engineering to become a Certified Plant Engineer-in-Training.



MARINE ENGINEERING TECHNOLOGY (MET) MAJOR

The Marine Engineering Technology (MET) major provides an undergraduate education for marine engineers employed aboard commercial and military vessels. The curriculum provides a foundation in the engineering fundamentals of shipboard mechanical and electrical systems, as well as practical training in the operation and maintenance of steam, motor, and gas turbine propulsion plants. The MET program has the following educational objectives:

- graduates will have the knowledge and ability to become professionals as licensed engineers, and hold other respected positions in the maritime industry
 - graduates will have the knowledge and ability to manage and lead technical activities
- graduates will have the knowledge and ability to function effectively as leaders on professional teams
 - graduates will have the knowledge and ability to communicate with effective speaking, writing, and presentation skills, including the ability to put together a compelling argument
 - graduates will demonstrate a respect for professional, ethical, and social issues, and have a commitment to safety, quality and productivity

The MET curriculum includes three 60-day practical training experiences: two sea training periods aboard the *Training Ship GOLDEN BEAR*, and one sea training period aboard a military or commercial vessel. The MET program also requires satisfactory completion of a qualifying examination administered by the U.S. Coast Guard to obtain a Third Assistant Engineer, Steam, Motor and Gas Turbine Vessels, Unlimited Horsepower license.



PROFESSIONAL CERTIFICATIONS AND MEMBERSHIPS

Students completing ET 342 Refrigeration and Air Conditioning coursework are eligible to take a written exam for professional certification as EPA Universal Technicians.

Students who achieve a GPA in the upper 25% of their class for three or more consecutive semesters are awarded membership in the Engineering Technology national honor society, TAU ALPHA PI.

In order to further their professional development, students of the Engineering Technology majors are encouraged to become student members of societies associated with facilities and marine engineering professions. Professional societies that sponsor local undergraduate programs and provide career networking opportunities include the Association for Facilities Engineering (AFE), International Society of Automation (ISA) and the Society of Naval Architects and Marine Engineers (SNAME).

MINOR IN POWER GENERATION

The Power Generation minor is available to students completing the Mechanical Engineering major. This minor is designed to provide practical knowledge and operational training in power generation—including generation from fossil fuels and renewable sources. Please refer to the Mechanical Engineering department’s section in this catalog for additional details.

All students must complete the following courses:

	Units
ENG 440 Power Engineering	3
ENG 440L Power Engineering Lab	1
EPO 210 Plant Operations II	1
EPO 214 Boilers	3
EPO 230 Steam Plant System Operations	1
EPO 235 Steam Plant Watch Team Management	1
EPO 312 Turbines.....	3
EPO 319 Facilities Engineering Diagnostics Lab.....	1
EPO 321 Intro to Power Generation Plants	1



FACILITIES ENGINEERING TECHNOLOGY MAJORS CURRICULUM

(Subject to Change)

TOTAL UNITS: 153

CERTIFIED PLANT ENGINEER-IN-TRAINING CERTIFICATE
REQUIRED FOR GRADUATION

Writing Proficiency Requirement:

All Junior students must demonstrate upper division writing competency as a graduation requirement. This may be fulfilled by passing either the Graduation Writing Exam or EGL 300 Advanced Writing.

<p>FALL (Freshman Year)</p> <p>CHE 100 Chemistry I 3.0</p> <p>CHE 100L Chemistry I Lab 1.0</p> <p>ELEC 8 American Institutions Elective^{3&4} 3.0</p> <p>ELEC 21 Humanities Elective 3.0 (Lower Division)^{3&4}</p> <p>ENG 100 Engineering Graphics 2.0</p> <p>EPO 110 Plant Operations I^{1&2} 1.0</p> <p>EPO 125 Intro to Marine Engineering^{*1&2} 3.0</p> <p>EPO 125L Intro to Marine Engineering Lab^{*1&2} 1.0</p> <p>EPO 213 Welding Lab^{1&2} 1.0</p> <p>ET 110 Intro to Engineering Technology[*] 1.0</p> <p>MTH 100 College Algebra & Trigonometry 4.0</p> <p>PE 100 Beginning/Intermediate Swimming (.5)</p> <p style="text-align: right;">Total 17.0</p>	<p>SPRING (Freshman Year)</p> <p>CHE 205 Chemistry of Plant Processes[*] 3.0</p> <p>DL 105 Marine Survival 1.0</p> <p>DL 105L Marine Survival Lab 1.0</p> <p>DL 105X USCG Lifeboatman's Exam 0.0</p> <p>EGL 100 English Composition 3.0</p> <p>ELEC 8 American Institutions Elective^{1&2} 3.0</p> <p>EPO 110 Plant Operations I^{3&4} 1.0</p> <p>EPO 125 Intro to Marine Engineering^{*3&4} 3.0</p> <p>EPO 125L Intro to Marine Engineering Lab^{*3&4} 1.0</p> <p>EPO 213 Welding Lab^{3&4} 1.0</p> <p>LIB 100 Information Fluency in the Digital World^{1&2} 2.0</p> <p>MTH 210 Calculus I 4.0</p> <p style="text-align: right;">Total 17.0 OR 18.0</p>	<p>SPRING CRUISE (Freshman Year)</p> <p>CRU 150 Sea Training I (Engine) 8.0</p> <p>EPO 220 Diesel Engineering I[*] 2.0</p> <p style="text-align: right;">Total 10.0</p>
<p>FALL (Sophomore Year)</p> <p>COM 220L Programming Apps for ETs Lab 1.0</p> <p>ELEC 20 Critical Thinking Elective 3.0</p> <p>EPO 210 Plant Operations II 1.0</p> <p>EPO 214 Boilers[*] 3.0</p> <p>EPO 215 Manufacturing Processes I 1.0</p> <p>EPO 230 Steam Plant System Operations[*] 1.0</p> <p>MTH 211 Calculus II 4.0</p> <p>PHY 200 Engineering Physics I 3.0</p> <p>PHY 200L Engineering Physics I Lab 1.0</p> <p style="text-align: right;">Total 18.0</p>	<p>SPRING (Sophomore Year)</p> <p>EGL 110 Speech Communication 3.0</p> <p>ELEC 21 Humanities Elective (Lower Division)^{1&2} 3.0</p> <p>EPO 235 Steam Plant Watch Team Mgmt[*] 1.0</p> <p>EPO 312 Turbines[*] 3.0</p> <p>ET 230 Properties of Materials[*] 2.0</p> <p>ET 232 Statics[*] 3.0</p> <p>LIB 100 Information Fluency in the Digital World^{3&4} 2.0</p> <p>PHY 205 Engineering Physics II 4.0</p> <p style="text-align: right;">Total 18.0 OR 19.0</p>	<p>SPRING CO-OP (Sophomore Year)</p> <p>CEP 270 FET Co-Op I 3.0</p> <p style="text-align: right;">Total 3.0</p>
<p>FALL (Junior Year)</p> <p>ELEC 22 Humanities Elective 3.0 (Upper Division)</p> <p>EPO 319 Facilities Engr. Diagnostics Lab[*] 1.0</p> <p>ET 230L Properties of Materials Lab[*] 1.0</p> <p>ET 250 Electrical Circuits[*] 3.0</p> <p>ET 250L Electrical Circuits Lab[*] 1.0</p> <p>ET 330 Dynamics[*] 3.0</p> <p>ET 332 Strength of Materials[*] 3.0</p> <p>ET 344 Thermodynamics[*] 3.0</p> <p style="text-align: right;">Total 18.0</p>	<p>SPRING (Junior Year)</p> <p>EGL 300 Advanced Writing (3.0)</p> <p>EPO 310 Plant Operations III 1.0</p> <p>EPO 315 Manufacturing Processes II 1.0</p> <p>EPO 321 Intro to Power Generation Plants[*] 1.0</p> <p>ET 340 Fluid Mechanics[*] 3.0</p> <p>ET 340L Fluid Mechanics Labs[*] 1.0</p> <p>ET 342 Refrigeration & A/C[*] 2.0</p> <p>ET 342L Refrigeration & A/C Lab[*] 1.0</p> <p>ET 370 Electronics[*] 3.0</p> <p>ET 370L Electronics Lab[*] 1.0</p> <p style="text-align: right;">Total 14.0</p>	<p>SPRING CO-OP (Junior Year)</p> <p>CEP 370 FET Co-Op II 3.0</p> <p style="text-align: right;">Total 3.0</p>
<p>FALL (Senior Year)</p> <p>ELEC 9 American Institutions Elective 3.0</p> <p>ENG 470 Engineering Management[*] 3.0</p> <p>ET 350 Electrical Machinery[*] 3.0</p> <p>ET 350L Electrical Machinery Lab[*] 1.0</p> <p>ET 400 Instr & Measurement[*] 3.0</p> <p>ET 400L Instr & Measurement Lab[*] 1.0</p> <p>ET 442 HVAC[*] 2.0</p> <p>ET 442L HVAC Lab[*] 1.0</p> <p style="text-align: right;">Total 17.0</p>	<p>SPRING (Senior Year)</p> <p>ELEC 32 Social Science Elective (Upper Division) 3.0</p> <p>ENG 472 Facilities Management[*] 3.0</p> <p>ET 460 Automation[*] 3.0</p> <p>ET 460L Automation Lab[*] 1.0</p> <p>ET 490 Power Engr Technology[*] 3.0</p> <p>ET 490L Power Engr Technology Lab[*] 1.0</p> <p>HUM 310 Engineering Ethics 3.0</p> <p style="text-align: right;">Total 17.0</p>	

^{1&2}

^{3&4}

*

Divisions 1&2 cadets take course
Divisions 3&4 cadets take course
Courses in Major (CGPA = 2.0 is required)

MARINE ENGINEERING TECHNOLOGY MAJOR CURRICULUM

(Subject to Change)

TOTAL UNITS: 161

THIRD ASSISTANT ENGINEER'S/OICEW LICENSE REQUIRED FOR GRADUATION

Writing Proficiency Requirement:

All Junior students must demonstrate upper division writing competency as a graduation requirement. This may be fulfilled by passing either the Graduation Writing Exam or EGL 300 Advanced Writing.

FALL (Freshman Year)			SPRING (Freshman Year)			SPRING CRUISE (Freshman Year)		
CHE 100	Chemistry I	3.0	DL 105	Marine Survival♦	1.0	CRU 150	Sea Training I (Engine)♦	8.0
CHE 100L	Chemistry I Lab	1.0	DL 105L	Marine Survival Lab♦	1.0	EPO 220	Diesel Engineering I*	2.0
ELEC 8	American Institutions Elective ^{3&4}	3.0	DL 105X	USCG Lifeboatman's Exam	0.0	Total		10.0
ELEC 21	Humanities Elective (Lower Division) ^{3&4}	3.0	EGL 100	English Composition	3.0			
ENG 100	Engineering Graphics♦	2.0	ELEC 8	American Institutions Elective ^{1&2}	3.0			
EPO 110	Plant Operations I♦ ^{1&2}	1.0	ELEC 21	Humanities Elective (Lower Division) ^{1&2}	3.0			
EPO 125	Intro to Marine Engineering* ^{1&2}	3.0	EPO 110	Plant Operations I♦ ^{3&4}	1.0			
EPO 125L	Intro to Marine Engineering Lab* ^{1&2}	1.0	EPO 125	Intro to Marine Engineering* ^{3&4}	3.0			
EPO 213	Welding Lab♦ ^{1&2}	1.0	EPO 125L	Intro to Marine Engineering Lab* ^{3&4}	1.0			
ET 110	Intro to Engineering Technology*	1.0	EPO 213	Welding Lab♦ ^{3&4}	1.0			
MTH 100	College Algebra & Trigonometry	4.0	LIB 100	Information Fluency in the Digital World	2.0			
PE 100	Beginning/Intermediate Swimming	(.5)	MTH 210	Calculus I	4.0			
Total		17.0	Total		17.0			
FALL (Sophomore Year)			SPRING (Sophomore Year)			SPRING CRUISE (Sophomore Year)		
COM 220L	Programming Appl for ETs Lab	1.0	EGL 110	Speech Communication	3.0	CRU 250	Sea Training II (Engine)	8.0
ELEC 20	Critical Thinking Elective	3.0	EPO 235	Steam Plant Watch Team Mgmt♦*	1.0	Total		8.0
EPO 210	Plant Operations II♦	1.0	EPO 312	Turbines♦*	3.0			
EPO 214	Boilers♦*	3.0	ET 230	Properties of Materials*	2.0			
EPO 215	Manufacturing Processes I♦	1.0	ET 232	Statics*	3.0			
EPO 230	Steam Plant System Operations♦*	1.0	NSC 100	Naval Science for the MMO	3.0			
MTH 211	Calculus II	4.0	PHY 205	Engineering Physics II	4.0			
PHY 200	Engineering Physics I	3.0	Total		19.0			
PHY 200L	Engineering Physics I Lab	1.0						
Total		18.0						
FALL (Junior Year)			SPRING (Junior Year)			SPRING CRUISE (Junior Year)		
ELEC 22	Humanities Elective (Upper Division)	3.0	EGL 300	Advanced Writing	(3.0)	CRU 350	Sea Training III (Engine)♦	8.0
ET 230L	Properties of Materials Lab*	1.0	EPO 310	Plant Operations III♦	1.0	Total		8.0
ET 250	Electrical Circuits*	3.0	EPO 315	Manufacturing Processes II	1.0			
ET 250L	Electrical Circuits Lab♦*	1.0	EPO 322	Diesel Engineering II/Simulator*	1.0			
ET 330	Dynamics*	3.0	EPO 322L	Diesel Engineering II/Simulator Lab♦*	1.0			
ET 332	Strength of Materials*	3.0	ET 340	Fluid Mechanics*	3.0			
ET 344	Thermodynamics*	3.0	ET 340L	Fluid Mechanics Lab*	1.0			
FF 200	Basic/Adv Marine Firefighting♦ ^{3&4}	0.0	ET 342	Refrigeration & A/C*	2.0			
Total		17.0	ET 342L	Refrigeration & A/C Lab♦*	1.0			
			ET 370	Electronics♦*	3.0			
			ET 370L	Electronics Lab*	1.0			
			FF 200	Basic/Adv Marine Firefighting♦ ^{1&2}	0.0			
			Total		15.0			
FALL (Senior Year)			SPRING (Senior Year)					
ELEC 9	American Institutions Elective	3.0	ELEC 32	Social Science Elective (Upper Division)	3.0			
ENG 430	Naval Architecture♦*	3.0	EPO 217	Shipboard Medical♦	1.0			
ENG 470	Engineering Management*	3.0	ET 460	Automation♦*	3.0			
ET 350	Electrical Machinery*	3.0	ET 460L	Automation Lab*	1.0			
ET 350L	Electrical Machinery Lab♦*	1.0	ET 490	Power Engr Technology*	3.0			
ET 400	Instr & Measurement*	3.0	ET 490L	Power Engr Technology Lab*	1.0			
ET 400L	Instr & Measurement Lab*	1.0	HUM 10	Engineering Ethics	3.0			
Total		17.0	Total		15.0			

1&2 Divisions 1&2 cadets take course

3&4 Divisions 3&4 cadets take course

* Courses in Major (CGPA = 2.0 is required)

♦ STCW Courses (Must receive a "C-" or higher, or "CR")

ENGINEERING TECHNOLOGY COURSES

The following courses are offered by the department of Engineering Technology:

COMPUTERS

COM 220L. Programming Applications for Engineering Technology Majors Lab

COOPERATIVE EDUCATION

CEP 185. Study Abroad Elective
CEP 270. FET Co-Op I
CEP 370. FET Co-Op II
CEP 385. Study Abroad Elective
CEP 390. Independent Study
CEP 395. Special Topics

CRUISE

CRU 150. Sea Training I (Engine)
CRU 185. Study Abroad Elective
CRU 250. Sea Training II (Engine) Commercial Cruise
CRU 275. Sea Training II (Engine) Coast Guard Only
CRU 350. Sea Training III (Engine)
CRU 385. Study Abroad Elective
CRU 390. Independent Study
CRU 395. Special Topics

ENGINEERING

ENG 100. Engineering Graphics
ENG 185. Study Abroad Elective
ENG 385. Study Abroad Elective
ENG 390. Independent Study
ENG 395. Special Topics
ENG 430. Naval Architecture
ENG 470. Engineering Management
ENG 472. Facilities Management

ENGINEERING PLANT OPERATIONS

EPO 125. Introduction to Marine Engineering
EPO 125L. Introduction to Marine Engineering Lab
EPO 185. Study Abroad Elective
EPO 213. Welding Lab
EPO 214. Boilers
EPO 215. Manufacturing Processes I
EPO 217. Shipboard Medical
EPO 220. Diesel Engineering I
EPO 230. Steam Plant System Operations
EPO 235. Steam Plant Watch Team Management
EPO 312. Turbines
EPO 315. Manufacturing Processes II
EPO 319. Facilities Engineering Diagnostics Lab
EPO 321. Introduction to Power Generation Plants
EPO 322. Diesel Engineering II/Simulator
EPO 322L. Diesel Engineering II/Simulator Lab
EPO 324. Refrigeration & A/C For QMED
EPO 325. QMED Fundamentals
EPO 385. Study Abroad Elective
EPO 390. Independent Study
EPO 395. Special Topics
EPO 413. Advanced Welding And Fabrication

ENGINEERING TECHNOLOGY

- ET 110.** Introduction to Engineering Technology
- ET 185.** Study Abroad Elective
- ET 230.** Properties of Materials
- ET 230L.** Properties of Materials Lab
- ET 232.** Statics
- ET 250.** Electrical Circuits
- ET 250L.** Electrical Circuits Lab
- ET 330.** Dynamics
- ET 332.** Strength of Materials
- ET 340.** Fluid Mechanics
- ET 340L.** Fluid Mechanics Lab
- ET 342.** Refrigeration and Air Conditioning
- ET 342L.** Refrigeration and Air Conditioning Lab
- ET 344.** Thermodynamics
- ET 350.** Electrical Machinery
- ET 350L.** Electrical Machinery Lab
- ET 370.** Electronics
- ET 370L.** Electronics Lab
- ET 385.** Study Abroad Elective
- ET 390.** Independent Study
- ET 395.** Special Topics
- ET 400.** Instrumentation and Measurement Lab
- ET 442.** Heating, Ventilation, and Air Conditioning
- ET 442L.** Heating, Ventilation, and Air Conditioning Lab
- ET 460.** Automation
- ET 460L.** Automation Lab
- ET 490.** Power Engineering Technology
- ET 490L.** Power Engineering Technology Lab

HUMANITIES

- HUM 185.** Study Abroad Elective
- HUM 310.** Engineering Ethics
- HUM 385.** Study Abroad Elective
- HUM 390.** Independent Study
- HUM 395.** Special Topics

LIBRARY

FACULTY AND STAFF

Sr. Assistant Librarians:

Michele Van Hoeck; Margot Hanson

IT Consultant:

Mark Stackpole

Library Services Specialist II:

Larry Stevens; Jennifer Haupt

Cal Maritime's library facilitates student success by offering library services, instruction, and collections that address the needs of Cal Maritime's unique curriculum, and help develop savvy information users and life-long learners.

The library plays a key role as a place for quiet study, group work, research, reflection, and productivity. Its building, with views of the Carquinez Strait and San Pablo Bay, offers an inviting and serene environment. It is equipped with many tools to facilitate research and study, including a wireless network, computers, printers, and photocopiers.

INSTRUCTION PROGRAM

The library's instruction program plays a key role in helping students gain one of the Western Association of Schools and Colleges' five core 21st century skills: information literacy. To achieve this, the program offers a 2-unit course, LIB 100: Information Fluency in the Digital World. This course introduces students to the skills needed for computing and critical thinking, and for accessing, evaluating, and ethically using information.

Librarians collaborate with the faculty to provide information literacy instruction in targeted courses within the curriculum.

In addition, librarians author instructional materials and make them available within courses, online, and in the library. The library's professional faculty and staff are always keen to consult with and assist students, faculty, and staff on instructional opportunities.

INFORMATION RESOURCES

The library's website, <http://library.csum.edu>, is the portal for discovering the resources available to the students. The library's physical collection consists of approximately 50,000 items, and many popular, scholarly, and trade and industry journals, magazines, and newspapers. The library's online information resources consist of over 50 research databases with access to thousands of full-text journal articles and eBooks.

In addition, librarians collect, organize, and make available recommended web resources through online subject research guides, and make course materials directly available for students through the campus' online course-management software.

To develop a collection that is relevant to our users, the library welcomes requests from students, faculty, and staff for the acquisition of new materials.

INTERLIBRARY BORROWING

Students, faculty, and staff may borrow books and media from a shared collection of over 10 million titles through the library's participation in LINK+, a resource sharing service made up of many public and university libraries. LINK+ allows users to easily and independently discover and request materials not available at the Cal Maritime library. These materials are usually delivered in two to four business days.

Materials that are not available through LINK+, journal articles, and other materials may be requested through the interlibrary loan service, OCLC, by completing an online form.

RESEARCH ASSISTANCE

Students and faculty have many options to get help with their research and in using the library's resources. Librarians and staff are available in-person on a drop-in or appointment basis, or by email or phone. Students may also get help through "QuestionPoint", an online, nationally-staffed, 24-hour-chat research service. Finally, students can access many instructional and research guides online on the library's website.

CAMPUS HISTORY COLLECTION

The library preserves the heritage of the California Maritime Academy through documents, photographs, and artifacts in its Campus History Collection (CHC). This collection is available by appointment for research and display.

LIBRARY COURSES

The following courses are offered by the library:

- LIB 100.** Information Fluency in the Digital World
- LIB 185.** Study Abroad Elective
- LIB 385.** Study Abroad Elective
- LIB 390.** Independent Study
- LIB 395.** Special Topics

MARINE TRANSPORTATION

FACULTY

Professors:

Steven Browne; Peter J. Hayes (Chair); Paul R. Leyda;
Tuuli Messer-Bookman; Samuel R. Pecota;
Robert Stewart; Daniel Weinstock

Assistant Professors:

Scott M. Powell

Maritime Vocational Instructor IV:

Michael Andrews; Lyle Cook; Britt T. Elliott;
William E. Schmid

Maritime Vocational Instructor III:

Tom Allen; Peter McGroarty

Maritime Vocational Instructor II:

Robert Brown; Scott Saarheim

Maritime Vocational Lecturers:

David Coleman; Mark Hensley; Valerie Holl-McGowan;
James West

Lecturer:

Douglas O'Brien

Professor Emeriti:

James Buckley; Brian Law; David Sears

The Marine Transportation degree program includes significant academic breadth and extensive technical expertise. Through experiences in the classroom, laboratories, simulators, and aboard the *Training Ship GOLDEN BEAR* and commercial vessels, students achieve a level of professional confidence, competence, and leadership that allows them to function in decision-making positions with the international transportation industry.

The mission of the department of Marine Transportation is to develop in our graduates the practical skills, judgment, character, and leadership traits necessary to become leaders in the maritime industry, both at sea and ashore. To this end, by way of practical and theoretical training at sea, in simulators, and in the classroom, the Marine Transportation program seeks to do the following:

- prepare our students to meet, along with a wide array of seamanship and advanced mariners' skills, all U.S. Coast Guard and international requirements for Second Mate / Officer-in-Charge of the Navigational Watch at the operational level
- provide them with a well-rounded liberal education culminating in a Bachelor of Science degree in accordance with California State University requirements
- imbue in them a strong sense of ethics, personal integrity, accountability, and officership
- provide opportunities to develop the leadership and communication skills to be an effective leader
- provide opportunities for obtaining various additional maritime professional certifications



MISSION STATEMENT

MARINE TRANSPORTATION (MT) MAJOR

The student choosing a career as a licensed deck officer (mate) or a shoreside maritime manager will typically major in Marine Transportation. This major provides a breadth of maritime industry training as consistent with officer licensing requirements.

Marine Transportation graduates have a broad employment field open to them. A wide variety of shoreside management positions await the graduate in maritime sectors like vessel operations, ship's agency, marine insurance, stevedoring, charter brokering, and federal employment, as well as shipboard employment opportunities.

This major, with the array of professional skills taught, is designed to prepare the student to take the U.S. Coast Guard STCW licensing exam for Second Mate and Officer-in-Charge of the Navigational Watch. Passing this examination results in the issuance of a Third Mate, Unlimited, Any Ocean license which is essential to gaining employment as a licensed deck officer on a commercial vessel.

DECK LICENSES

Deck licenses issued by the U.S. Coast Guard, in increasing rank, are as follows:

Third Mate, Second Mate, Chief Mate, and Master.

An elevation in rank is dependent upon the graduate's ability to accumulate sea time, typically one year of sea time in each license category, and to pass USCG examinations of increasing complexity and difficulty.



SEA TRAINING: DECK

CRU 100 SEA TRAINING I

This cruise addresses the skills required of the ratings forming part of the navigational watch. Students develop internationally-mandated skills by practicing on shipboard equipment. They steer the ship, keep a proper lookout, monitor and control conditions for safety, operate emergency equipment, and demonstrate emergency procedures. These skills are evaluated by shipboard officers trained to assess international standards of watch keeping. Students must also demonstrate competencies in emergency and occupational safety, basic personal survival, and procedures to prevent pollution of the marine environment. In addition, they acquire a basic knowledge of deck maintenance and of the tools used on deck. Small boat operation skills are also developed, particularly in anchor ports.

CRU 200 SEA TRAINING II (COMMERCIAL)

While aboard a commercial vessel for a period of at least 60 days, cadets are given a series of projects to perform and an extensive written report to prepare on their experiences. The report covers many components of navigation, seamanship, labor relations, human relations, and safe cargo handling and stowage.

This report is assessed for completeness and accuracy by an assigned faculty member after the end of the commercial cruise. The student must meet departmental commercial cruise policy, which includes maintaining a 2.0 GPA in selected professional courses and adhering to disciplinary and academic probation requirements. For more information, the student should see the special prerequisites listed under the CRU 200 course description.

CRU 300 SEA TRAINING III

This cruise addresses the skills required of the Officer-in-Charge of the Navigational Watch. During this final cruise, students must demonstrate competence in skills established by international standards. These include planning and conducting a passage; determining the ship's position by celestial, terrestrial and electronic means; and maintaining a safe navigational watch. Students are assessed in their ability to respond promptly and properly to shipboard emergencies and to distress situations on other vessels. Cadets must also demonstrate adequate skills in maneuvering the ship. At the end of this cruise, they should be qualified to perform the duties of licensed deck officers at sea, with the exception of watchstanding skills to be assessed by a full mission simulator afterward.

MARINE TRANSPORTATION MAJOR CURRICULUM

(Subject to Change)

TOTAL UNITS: 159

THIRD MATE'S/OICNW LICENSE REQUIRED FOR GRADUATION

Writing Proficiency Requirement:

All Junior students must demonstrate upper division writing competency as a graduation requirement. This may be fulfilled by passing either the Graduation Writing Exam or EGL 300 Advanced Writing.

FALL (Freshman Year) COM 100 Introduction to Computers 2.0 DL 105 Marine Survival♦ 1.0 DL 105L Marine Survival Lab♦ 1.0 DL 105X USCG Lifeboatman's Exam♦ 0.0 DL 109 Industrial Equipment and Safety 1.0 DL 115 Marlinspike 1.0 MTH 100 College Algebra & Trigonometry 4.0 NAU 103 Intro to Marine Transportation* 3.0 NAU 105 Ship Structure♦* 2.0 NSC 100 Naval Science for the MMO 3.0 PE 100 Beginning/Intermediate Swimming (.5) Total 18.0	SPRING (Freshman Year) CHE 100 Chemistry I 3.0 CHE 100L Chemistry I Lab 1.0 DL 100 Small Craft Operations♦ 1.0 DL 110 Ship Operations I 1.0 DL 120 Cargo Operations 1.0 ECO 100 Macroeconomics 3.0 EGL 100 English Composition 3.0 ELEC 31 Social Science Elective (Lower Division) 3.0 NAU 110 Seamanship♦* 3.0 Total 19.0	SPRING CRUISE (Freshman Year) CRU 100 Sea Training I (Deck)♦ 5.0 Total 8.0
FALL (Sophomore Year) DL 111 Ship Operations II 1.0 DL 325 Radar/ARPA♦* ^{1&2} 2.0 DL 325L Radar/ARPA Lab♦* ^{1&2} 2.0 ELEC 20 Critical Thinking Elective 3.0 NAU 102 Navigation I♦* 4.0 NAU 102L Navigation I Lab♦* 0.0 NAU 305 Rules of the Road♦* 2.0 PHY 100 Physics I 3.0 PHY 100L Physics I Lab 1.0 Total 14.0 OR 18.0	SPRING (Sophomore Year) DL 240 GMDSS♦* 2.0 DL 240L GMDSS Lab♦* 1.0 DL 325 Radar/ARPA♦* ^{3&4} 2.0 DL 325L Radar/ARPA Lab♦* ^{3&4} 2.0 ELEC 9 American Institutions Elective 3.0 NAU 205 Ship Stability♦* 3.0 NAU 310 Electricity/Electronics* 3.0 NAU 310L Electricity/Electronics Lab* 1.0 Total 3.0 OR 17.0	SPRING CRUISE (Sophomore Year) CRU 200 Sea Training II (Deck) 5.0 CRU 200L Sea Training II Lab (Deck) 3.0 Total 8.0
FALL (Junior Year) DL 310 Marine Supervisory Lab 1.0 EGL 110 Speech Communication♦ 3.0 EGL 300 Advanced Writing♦ (3.0) ELEC 21 Humanities Elective (Lower Division) ^{1&2} 3.0 FF 200 Basic/Adv. Marine Firefighting♦ ^{3&4} 0.0 NAU 302 Advanced Navigation♦* 3.0 NAU 302L Advanced Navigation Lab♦* 0.0 NAU 320 Tank Vessel Operations♦* 3.0 NAU 330 Meteorology♦ 3.0 NAU 335 ECDIS♦* ^{3&4} 2.0 NAU 335L ECDIS Lab♦* ^{3&4} 1.0 Total 16.0	SPRING (Junior Year) DL 311 Marine Management Lab 1.0 DL 320 Introduction to Bridge Simulation♦ 2.0 ELEC 21 Humanities Writing (Lower Division) ^{3&4} 3.0 FF 200 Basic/Adv. Marine Firefighting♦ ^{1&2} 0.0 NAU 120 Marine Engineering♦ 3.0 NAU 202 Celestial Navigation♦* 4.0 NAU 202L Celestial Navigation Lab♦* 0.0 NAU 325 Cargo Vessel Operations♦* 3.0 NAU 335 ECDIS♦* ^{1&2} 2.0 NAU 335L ECDIS Lab♦* ^{1&2} 1.0 TAKE THIS OR TOTAL OF THESE 16.0	SPRING CRUISE (Junior Year) CRU 300 Sea Training III (Deck)♦ 8.0 Total 8.0
FALL (Senior Year) DL 305 Tug and Barge ^{3&4} 1.0 DL 405 Shipboard Medical♦ ^{1&2} 1.0 DL 405L Shipboard Medical Lab♦ ^{1&2} 1.0 DL 410 Ship Handling♦* ^{1&2} 1.0 DL 420 Watchstanding Simulation♦ 2.0 ELEC 8 American Institutions Elective 3.0 ELEC 22 Humanities Elective (Upper Division) 3.0 HUM 400 Ethics 3.0 MGT 105 Mgmt and Organizational Behavior 3.0 NAU 410 License Seminar* 2.0 NAU 410L License Seminar Lab* 0.0 Total 17.0 OR 19.0	SPRING (Senior Year) DL 125 Graphics 1.0 DL 305 Tug and Barge ^{1&2} 1.0 DL 405 Shipboard Medical♦ ^{3&4} 1.0 DL 405L Shipboard Medical Lab♦ ^{3&4} 1.0 DL 410 Ship Handling♦* ^{3&4} 1.0 ELEC 22 Humanities Elective (Upper Division) 3.0 LAW 315 Admiralty Law 2.0 MGT 310 Port and Terminal Management 3.0 NAU 415 Transportation Security♦* 3.0 NAU 400 Advanced Maritime Topics* 3.0 NAU 430 Liquefied Gas Cargos* 2.0 NAU 430L Liquefied Gas Cargos Lab* 1.0 Total 16.0 OR 18.0	^{1&2} Divisions 1&2 cadets take course ^{3&4} Divisions 3&4 cadets take course ♦ STCW Courses (Must receive a "C-" or higher, or "CR") * Courses in Major (CGPA = 2.0 is required) NOTE: Course content/curriculum may be modified to meet STCW or other regulatory requirements.

MARINE TRANSPORTATION COURSES

The following courses are offered by the department of Marine Transportation:

CRUISE

CRU 100.	Sea Training I (Deck)
CRU 185.	Study Abroad Elective
CRU 200.	Sea Training II (Deck)
CRU 200L.	Sea Training II Lab (Deck)
CRU 225.	USCG Sea Training II (Deck)
CRU 225L.	USCG Sea Training II Lab
CRU 300.	Sea Training III (Deck)
CRU 385.	Study Abroad Elective
CRU 390.	Independent Study
CRU 395.	Special Topics

DECK LABS

DL 125.	Graphics
DL 185.	Study Abroad Elective
DL 240.	Global Maritime Distress Safety System (GMDSS)
DL 240L.	Global Maritime Distress Safety System (GMDSS) Lab
DL 320.	Introduction to Bridge Simulation
DL 325.	RADAR/ARPA
DL 325L.	RADAR/ARPA Lab
DL 385.	Study Abroad Elective
DL 390.	Independent Study
DL 395.	Special Topics
DL 405.	Shipboard Medical
DL 405L.	Shipboard Medical Lab
DL 410.	Ship Handling
DL 420.	Watchstanding Simulation

NAUTICAL SCIENCE

NAU 102.	Navigation I
NAU 102L.	Navigation I Lab
NAU 103.	Introduction to Marine Transportation
NAU 105.	Ship Structure
NAU 110.	Seamanship
NAU 120.	Marine Engineering
NAU 185.	Study Abroad Elective
NAU 202.	Celestial Navigation
NAU 202L.	Celestial Navigation Lab
NAU 205.	Ship Stability
NAU 302.	Advanced Navigation
NAU 302L.	Advanced Navigation Lab
NAU 305.	Rules of the Road
NAU 310.	Electricity and Electronics
NAU 310L.	Electricity and Electronics Lab
NAU 320.	Tank Vessel Operations
NAU 325.	Cargo Vessel Operations
NAU 330.	Meteorology
NAU 335.	Electronic Chart Display and Information Systems (ECDIS)
NAU 335L.	Electronic Chart Display and Information Systems (ECDIS) Lab
NAU 385.	Study Abroad Elective
NAU 390.	Independent Study
NAU 395.	Special Topics
NAU 400.	Advanced Maritime Topics
NAU 410.	License Seminar
NAU 410L.	License Seminar Lab
NAU 415.	Transportation Security
NAU 430.	Liquified Gas Cargos
NAU 430L.	Liquified Gas Cargos Lab

MARITIME POLICY AND MANAGEMENT

FACULTY

Professor:

Donna Nincic (Director, ABS School of Maritime Policy and Management; Director, International Studies; Chair)

Associate Professors:

Nipoli Kamdar

Assistant Professors:

Khalid Bachkar; Ryan Dudley; Tony C. Lewis; Dianne Meredith

Lecturers:

Matthew Dudman; Jennifer Metz; Robert Neumann; Harry Portolos

The ABS School of Maritime Policy and Management offers two degree programs: 1) The Bachelor of Science in Business Administration / International Business and Logistics; and 2) the Bachelor of Arts in Global Studies and Maritime Affairs. In addition, the department of Culture and Communication provides students with the CSU-mandated breadth and depth in written and oral communications, critical thinking, humanities, and the social sciences.

The school also offers three minors to Cal Maritime students: 1) Business Administration; 2) Law; and 3) Global Studies and Maritime Affairs.

Students in the degree programs develop an interdisciplinary understanding of the maritime domain, a unique perspective on the interdependencies between maritime policy and the management of the global transportation supply chain, and the ethical, communication, and critical thinking skills needed to make positive contributions in today's challenging and dynamic global environment.

BUSINESS ADMINISTRATION-INTERNATIONAL BUSINESS AND LOGISTICS (BA-IBL) MAJOR

The mission of the program in Business Administration-International Business and Logistics is to graduate students who are readily employable and highly qualified for further education. Students will have a practical balance of theoretical knowledge, experiential learning, strong ethical values, and global leadership skills.

We enhance learning by a close involvement in international maritime affairs, unique educational platforms, vibrant industrial partnerships, and a diversity of faculty, staff and cadets.

The Business Administration-International Business and Logistics program leads to a Bachelor of Science degree. The program is accredited by the International Assembly for Collegiate Business Education (IACBE), P.O. Box 25217, Overland Park, KS, 66225, 913-631-3009, www.iacbe.org



BA-IBL OBJECTIVES

Students in the BA-IBL program:

- can think critically in analyzing situations, by examining data, work products and research results, objectively critiquing, and synthesizing information from a variety of sources
- are prepared to communicate effectively in business situations orally, in writing, in presentations, and by using modern electronic and multimedia technology. Students gain the ability to design and professionally perform major research projects, and identify and evaluate research done by others
- can use mathematical, computer, and communication technology effectively in business settings, and to develop and apply innovative technological solutions on their own
- develop an awareness of: professional ethical conduct in academic, individual, and business settings; concepts of social responsibility; empathy; and fairness, both corporate and individual
- obtain international experience and perspective through co-curricular activities, cross-disciplinary study, and active learning experiences
- can lead a team project or activity, showing responsibility, professional behavior, and mentoring skills

GLOBAL STUDIES AND MARITIME AFFAIRS (GSMA) MAJOR

The Global Studies and Maritime Affairs program leads to a Bachelor of Arts degree. Students in the GSMA major develop a solid theoretical background in the social sciences, applied to the needs of the greater maritime and transportation industries.

Students also develop applied knowledge relevant to government agencies, non-profit organizations, international organizations, and businesses dealing with maritime issues. Specifically, a solid foundation in economic and political globalization theories, and the theories of the policy process, an understanding of global maritime history and the importance of maritime power to the power of the state, and an awareness of, and facility with, current global maritime issues as they relate to security, trade, and the environment.

Students gain the intellectual tools necessary to understand maritime policy issues in an increasingly globalized world. Specifically, critical thinking, quantitative and non-quantitative research capability, leadership skills, and cultural and diversity awareness.



The GSMA major emphasizes four maritime policy areas:

■ **International Maritime Security**

This policy area focuses on maritime issues from a security perspective. Specifically, the different threats in the coastal and near-coastal zones, in international waters, and on the high seas. Topics covered include: sea-lane security, maritime piracy and terrorism, illegal immigration, innocent passage, force majeure, and changing naval policies both in the United States and in key countries around the world. A specific focus is on the identification of emerging maritime threats and the policies needed to counter these threats effectively.

■ **International Maritime Environmental Policy**

This policy area focuses on maritime environmental issues pertaining to global shipping. The course offerings extend to marine policy in general, rather than just policies with a focus on shipping and trade. Whaling, fisheries management, and the environmental standards of shipbuilding are examples of issues covered. Policy ramifications of each are examined in depth.

■ **Maritime Law and Organizations**

This policy area focuses on international maritime law and international maritime organizations, such as the U.N. Convention on the Law of the Sea (UNCLOS III), the International Maritime Organization, the International Maritime Bureau, and the U.S. Maritime Administration (MARAD). Policy impacts of these and other organizations are examined in detail.

■ **International Maritime Trade and Policy**

This policy area focuses on maritime issues from the perspective of international political economy. Economic globalization is one of the most profound and far-reaching events of the late twentieth and early twenty-first century. Its implications reach well into the trade and economic relations of all nations, the United States included. Here, the specific focus is on changing patterns of international trade and transportation, the globalization of the shipping industry, and the global political and economic forces behind these phenomena.

The objective in each of these core areas is to give students a theoretical foundation drawn from the social science fields of international relations, political science, public policy, history, and economics.

The theoretical tools employed will allow students to understand and analyze shipping and maritime policies in a global economic, political, and environmental context.

GSMA OBJECTIVES

Students in the Global Studies and Maritime Affairs program:

- gain an understanding of the key issues in maritime policy and international business and logistics
- understand the importance of the environment and geography to the maritime policy and business worlds
- think critically about the key issues in the maritime policy field and transportation industry
- acquire the ability to analyze and develop new and innovative solutions to emerging challenges in the maritime world
- have the ability to use and understand mathematical and statistical tools relevant to the maritime policy and management fields
- analyze and solve complex problems within the maritime policy and transportation fields
- assess and analyze the appropriateness of information within maritime policy and management fields
- articulate and analyze, both verbally and in writing, the current issues facing the maritime policy and management fields, and can develop appropriate solutions
- select and use appropriate technologies in research projects and presentations, and understand the importance of technology in their future careers
- develop an ethical awareness of key social, business and policy issues and hold themselves to high personal and professional ethical standards
- understand the importance of cultural diversity and cross-cultural understanding, and develop a sense of civic responsibility and global stewardship
- develop teamwork and leadership skills

CAREER OPPORTUNITIES FOR MAJORS

GSMA students will be prepared for policy careers in maritime trade and economics, maritime security (port security, piracy, and maritime terrorism), and maritime law. They typically pursue careers with:

- U.S. federal, state, and local governments, MARAD, the State Department, the Department of Homeland Security, the Department of Commerce, and allied areas
- agencies specializing in maritime security, including the Department of Defense, the Central Intelligence Agency, the Federal Bureau of Investigation, the Immigration and Naturalization Service, the Department of Transportation, and the United States Coast Guard
- international organizations such as the International Maritime Organization and the International Maritime Bureau
- graduate study in maritime law at institutions such as Tulane, Roger Williams, and the University of Virginia, each of which has program specializations in maritime law
- insurance and underwriting firms specializing in shipping and maritime issues

Additionally, the curriculum will provide rigorous preparation for further study at the graduate level in International Relations, Public Policy, Maritime Affairs, and Business Administration, especially International Business and Trade.



**BUSINESS ADMINISTRATION MAJOR
INTERNATIONAL BUSINESS AND LOGISTICS
CURRICULUM**

(Subject to Change)

Total Units: 120

Writing Proficiency Requirement:

All Junior students must demonstrate upper division writing competency as a graduation requirement. This may be fulfilled by passing either the Graduation Writing Exam or EGL 300 Advanced Writing.

FALL (Freshman Year)			SPRING (Freshman Year)		
BUS 120	The Environment of Mod. Business*	3.0	BUS 165	Business Decision Analysis	3.0
COM 100	Introduction to Computers	(2.0)	ECO 101	Microeconomics*	3.0
ECO 100	Macroeconomics*	3.0	ELEC 20	Critical Thinking Elective	3.0
EGL 100	English Composition	3.0	ELEC 63	Physical Science Elective	3.0
ELEC 81	Foreign Language I Elective	3.0	ELEC 63L	Physical Science Lab Elective	1.0
MTH 100	College Algebra and Trigonometry	4.0	ELEC 82	Foreign Language II Elective	3.0
PE 100	Beginning/Intermediate Swimming	(.5)	Total	16.0	
Total	1				
FALL (Sophomore Year)			SPRING (Sophomore Year)		
BUS 100	Accounting Principles I: Financial*	3.0	BUS 101	Accounting Principles II: Managerial*	3.0
EGL 110	Speech Communications*	3.0	BUS 300	International Business	3.0
ELEC 9	American Institutions Elective	3.0	ELEC 8	American Institutions Elective	3.0
MGT 205	Org. Behavior & Labor Relations*	3.0	MGT 305	Information Systems Mgmt*	3.0
MTH 205	Calculus for Business	3.0	MPM 190	T.S.G.B./International Experience Preparation	3.0
Total	15.0		MTH 107	Elementary Statistics*	1.0
			Total	16.0	
			SPRING CRUISE/INT'L EXPERIENCE (Sophomore Year)		
			CRU 190	Basic Safety Training✓	(1.0)
			CRU 999	T.S.G.B./International Experience Participation	0.0
			MPM 195	T.S.G.B./International Experience Special Topics*▼	3.0
			Total	3.0	
FALL (Junior Year)			SPRING (Junior Year)		
BUS 200	Introduction to Marketing*	3.0	ELEC 62	Life Science Elective	3.0
BUS 310	Financial Management*	3.0	ELEC 90	Major Elective*	3.0
EGL 300	Advanced Writing	(3.0)	LAW 300	International Law*	3.0
LAW 100	Business Law*	3.0	MGT 415	Operations Management*	3.0
MGT 340	Global Logistics*	3.0	Total	12.0	
MGT 410	Quantitative Managerial Methods*	3.0			
Total	15.0				
			SPRING CO-OP (Junior Year)		
			CEP 300	Business Industry Co-Op	3.0
			Total	3.0	
FALL (Senior Year)			SPRING (Senior Year)		
BUS 405	Leadership and Group Dynamics*	3.0	BUS 301	International Business II-Country Research Analysis & Global Marketing*	3.0
ELEC 91	Major Elective**	3.0	ELEC 22	Humanities Elective (Upper Division)	3.0
MGT 400	Strategic Management*	3.0	HUM 400	Ethics	3.0
MGT 420	Supply Chain Management*	3.0	MGT 440	Logistics Case Analysis*	3.0
Total	12.0		Total	12.0	

* Required Courses in Major (CGPA = 2.0 is required)

** Elective Courses in Major (CGPA = 2.0 is required)

▼ Special Topics course for T.S.G.B./International Experience will be determined by the itinerary and instructor expertise, after consultation with the ABS School of Maritime Policy and Management

✓ Required course when choosing T.S.G.B. participation



**GLOBAL STUDIES AND MARITIME AFFAIRS
MAJOR CURRICULUM**

(Subject to Change)

Total Units: 120

Writing Proficiency Requirement: All Junior students must demonstrate upper division writing competency as a graduation requirement. This may be fulfilled by passing either the Graduation Writing Exam or EGL 300 Advanced Writing.

FALL (Freshman Year)			SPRING (Freshman Year)		
ECO 100	Macroeconomics	3.0	ELEC 8	American Institutions Elective	3.0
EGL 100	English Composition	3.0	ELEC 20	Critical Thinking Elective	3.0
ELEC 70	Mathematics Elective	4.0	ELEC 63	Physical Science Elective	3.0
ELEC 81	Foreign Language I Elective	3.0	ELEC 63L	Physical Science Lab Elective	1.0
GMA 105	Ocean Politics*	3.0	ELEC 82	Foreign Language II Elective	3.0
LIB 100	Information Fluency in the Digital World	2.0	GMA 100	Intro to International Relations*	3.0
PE 100	Beginning/Intermediate Swimming	(.5)	Total	16.0	
Total	18.0				
FALL (Sophomore Year)			SPRING (Sophomore Year)		
ELEC 9	American Institutions Elective	3.0	EGL 110	Speech Communication	3.0
GMA 215	Introduction to Comparative Politics*	3.0	ELEC 21	Humanities Elective (Lower Division)	3.0
MTH 107	Elementary Statistics*	3.0	GMA 220	Comparative Maritime Policies*	3.0
	Major Elective**	3.0	MPM 190	T.S.G.B./International Experience Preparation Major Elective **	1.0
Total	12.0		Total	13.0	
			SPRING CRUISE/INT'L EXPERIENCE (Sophomore Year)		
			CRU 190	Basic Safety Training✓	(1.0)
			CRU 999	T.S.G.B./International Experience Participation	0.0
			MPM 195	T.S.G.B./International Experience Special Topics*▼	3.0
			Total	3.0	
FALL (Junior Year)			SPRING (Junior Year)		
EGL 300	Advanced Writing	(3.0)	ELEC 45	Lifelong Understanding Elective	3.0
ELEC 62	Life Science Elective	3.0	ELEC 90	IBL Elective*	3.0
GMA 300	U.S. Foreign Policy*	3.0	GMA 330	Maritime Security*	3.0
GMA 350	Political Geography*	3.0	HIS 300	Maritime History of the U.S.*	3.0
	Major Elective**	3.0	HUM 325	Globalization of Culture*	3.0
Total	12.0		Total	15.0	
			SPRING CO-OP (Junior Year)		
			CEP 330	GSMA Co-Op*	3.0
			Total	3.0	
FALL (Senior Year)			SPRING (Senior Year)		
GMA 395	Special Topics*	3.0	GMA 230	U.S. Maritime Policy*	3.0
GMA 400	Senior Seminar I: Methods & Design*	3.0	GMA 401	Senior Seminar II: Senior Project*	3.0
GMA 400L	Senior Seminar Research Lab	1.0	HUM 400	Ethics*	3.0
GMA 405	International Maritime Organizations*	3.0		Major Elective**	3.0
	Major Elective**	3.0		Major Elective**	3.0
Total	13.0		Total	5.0	
			■ ELECTIVE REQUIREMENTS		
			18 Units MajorElectives **		

- Be sure to read the 2013-15 Cal Maritime catalog and talk to your advisor to determine GSMA elective courses.
- * Required Courses in Major (CGPA = 2.0 is required)
- ** Elective Courses in Major (CGPA = 2.0 is required)
- ▼ Special Topics course for T.S.G.B./International Experience will be determined by the itinerary and instructor expertise, after consultation with the ABS School of Maritime Policy and Management
- ✓ Required course when choosing T.S.G.B. participation

MARITIME POLICY AND MANAGEMENT MINORS

MINOR IN BUSINESS ADMINISTRATION

In addition to the general requirements for earning a minor at Cal Maritime, and to receive a transcript notation of having completed the specific requirements for a minor in Business Administration, the student will have completed a minimum of 18* units from the following curriculum:

All students must complete the following courses**:

	Units
BUS 100 Accounting Principles I: Financial.....	3
BUS 200 Introduction to Marketing	3
MGT 105 Management and Org Behavior.....	3
MTH 107 Elementary Statistics.....	3

Plus two of the following courses:

	Units
BUS 101 Accounting Principles II: Managerial	3
BUS 310 Financial Management.....	3
ECO 101 Microeconomics	3
LAW 100 Business Law.....	3
MGT 340 Global Logistics.....	3

* No coursework used to fulfill minor requirements may simultaneously fulfill requirements toward another minor or toward courses that are tagged on the student's curriculum sheet as a "Course in Major." If any Business Administration minor course is required by the student's major, the student must replace that course requirement with an elective course of the same number of credits.

** Course substitutions to the above requirements are to be considered by the program coordinator and department chair only upon written request from the student and documentation of comparable experience.



MINOR IN LAW

In addition to the general requirements for earning a minor at Cal Maritime, and to receive a transcript notation of having completed the specific requirements for a minor in Law, the student will have completed a minimum of 15* units from the following curriculum:

All students must complete the following courses**:

	Units
LAW 100 Business Law	3
LAW 200 Environmental Law	3
LAW 300 International Law	3
LAW 315 Admiralty Law	2

Plus 4* units from the following courses:

	Units
GMA 400 International Maritime Organizations	3
MGT 315 Internship	3
(At least 60 hours total and written report required)	
LAW 185 Study Abroad.....	2-6
LAW 395 Special Topics***	2-6

* No coursework used to fulfill minor requirements may simultaneously fulfill requirements toward another minor or toward courses that are tagged on the student’s curriculum sheet as a “Course in Major.” If any Law minor course is required by the student’s major, the student must replace that course requirement with an elective course of the same number of credits.

** Course substitutions to the above requirements are to be considered by the program coordinator and department chair only upon written request from the student and documentation of comparable experience.

*** LAW 395 will offer rotating topics and can be completed up to three times for credit.

MINOR IN GLOBAL STUDIES AND MARITIME AFFAIRS

In addition to the general requirements for earning a minor at Cal Maritime, and to receive a transcript notation of having completed the specific requirements for a minor in Global Studies and Maritime Affairs, the student will have completed a minimum of 15 units from the following curriculum:

All students must complete the following courses:

	Units
GMA 105 Ocean Politics	3
HIS 300 Maritime History of the U.S.....	3
GMA 100 Introduction to International Relations	3

Plus at least two of the following courses:

	Units
Any GMA-designated course	3
ECO 200 Economic Geography	3
LAW 200 Environmental Law	3
LAW 300 International Law	3

MARITIME POLICY AND MANAGEMENT COURSES

The following courses are offered by the department of Maritime Policy and Management:

BUSINESS

- BUS 100.** Accounting Principles I: Financial
- BUS 101.** Accounting Principles II: Managerial
- BUS 120.** The Environment of Modern Business
- BUS 165.** Business Decision Analysis
- BUS 185.** Study Abroad Elective
- BUS 190.** Cruise Port Analysis
- BUS 195.** Cruise Special Topics
- BUS 200.** Introduction to Marketing
- BUS 300.** International Business
- BUS 301.** International Business II –Country Research Analysis and Global Marketing
- BUS 302.** Principles of Research Design, Implementation and Analysis
- BUS 302L.** Principles of Research Design, Implementation and Analysis Lab
- BUS 310.** Financial Management
- BUS 385.** Study Abroad Elective
- BUS 390.** Independent Study
- BUS 395.** Special Topics
- BUS 400.** Business and Society
- BUS 405.** Leadership and Group Dynamics

COOPERATIVE EDUCATION

- CEP 185.** Study Abroad Elective
- CEP 300.** Business Industry Co-Op I
- CEP 330.** GSMA Co-Op
- CEP 385.** Study Abroad Elective
- CEP 390.** Independent Study
- CEP 395.** Special Topics

ECONOMICS

- ECO 100.** Macroeconomics
- ECO 101.** Microeconomics
- ECO 185.** Study Abroad Elective
- ECO 200.** Economic Geography
- ECO 305.** Managerial Economics
- ECO 385.** Study Abroad Elective
- ECO 390.** Independent Study
- ECO 395.** Special Topics

GLOBAL STUDIES AND MARITIME AFFAIRS

- GMA 100.** Introduction to International Relations
- GMA 102.** World Regional Geography
- GMA 105.** Ocean Politics
- GMA 120.** Introduction to Environmental Policy
- GMA 185.** Study Abroad Elective
- GMA 210.** GSMA Cruise 1A: Port Analysis
- GMA 215.** Introduction to Comparative Politics
- GMA 220.** Comparative Maritime Policies
- GMA 225.** Southeast Asia: Maritime and Mainland
- GMA 230.** U.S. Maritime Policy
- GMA 300.** U.S. Foreign Policy
- GMA 310.** The Geopolitics of Energy
- GMA 315.** China and Its Neighbors
- GMA 320.** Ocean Environmental Management
- GMA 330.** Maritime Security
- GMA 345.** Asian Security
- GMA 350.** Political Geography
- GMA 360.** Globalization
- GMA 385.** Study Abroad Elective
- GMA 386.** Panetta Institute Elective
- GMA 390.** Independent Study
- GMA 395.** Special Topics
- GMA 400.** Senior Seminar I: Methods and Design
- GMA 400L.** Senior Seminar Research Lab
- GMA 401.** Senior Seminar II: Research Project
- GMA 405.** International Maritime Organizations
- GMA 450.** Special Topics in Maritime Policy

GOVERNMENT

- GOV 185.** Study Abroad Elective
- GOV 200.** American Government
- GOV 385.** Study Abroad Elective
- GOV 390.** Independent Study
- GOV 395.** Special Topics

HISTORY

- HIS 100.** U.S. History (to 1877)
HIS 101. U.S. History (from 1877)
HIS 185. Study Abroad Elective
HIS 210. History of Latin America
HIS 300. Maritime History of the U.S.
HIS 305. The World Since 1500, A Global History
HIS 315. World Maritime History I: Antiquity to Age of Discovery
HIS 316. World Maritime History II: Age of Exploration Through the Nuclear Age
HIS 350. Race, Class and Gender in the Maritime World
HIS 360. Bay Area Maritime History
HIS 385. Study Abroad Elective
HIS 390. Independent Study
HIS 395. Special Topics

LAW

- LAW 100.** Business Law
LAW 185. Study Abroad Elective
LAW 200. Environmental Law
LAW 300. International Law
LAW 315. Admiralty Law
LAW 385. Study Abroad Elective
LAW 390. Independent Study
LAW 395. Special Topics

LEADERSHIP

- LDR 185.** Study Abroad Elective
LDR 210. Foundations of Leadership
LDR 385. Study Abroad Elective
LDR 390. Independent Study
LDR 395. Special Topics

MANAGEMENT

- MGT 105.** Management and Organizational Behavior
MGT 185. Study Abroad Elective
MGT 205. Organizational Behavior and Labor Relations
MGT 300. Advanced Management Techniques (for MT Only)
MGT 305. Information Systems Management
MGT 310. Port and Terminal Management and Operations
MGT 315. Internship
MGT 325. Principles of Purchasing
MGT 335. Advanced Information Systems
MGT 340. Global Logistics
MGT 385. Study Abroad Elective
MGT 390. Independent Study
MGT 395. Special Topics
MGT 400. Strategic Management
MGT 410. Quantitative Managerial Methods
MGT 415. Operations Management
MGT 420. Supply Chain Management
MGT 440. Logistics Cases and Analysis

MARITIME POLICY & MANAGEMENT

- MPM 185.** Study Abroad Elective
MPM 190. T.S.G.B./International Experience Preparation
MPM 195. T.S.G.B./International Experience Special Topics
MPM 385. Study Abroad Elective
MPM 390. Independent Study
MPM 395. Special Topics

TRANSPORTATION

- TRA 185.** Study Abroad Elective
TRA 300. Transportation Carrier Management
TRA 305. Maritime Policy Seminar
TRA 310. Marine Chartering and Insurance
TRA 385. Study Abroad Elective
TRA 390. Independent Study
TRA 395. Special Topics
TRA 400. Transportation of Hazardous Materials
TRA 405. Import and Export Regulations
TRA 410. National and State Transportation Policies

MECHANICAL ENGINEERING

FACULTY

Professors:

Nader Bagheri (Chair); Jim Gutierrez;
Antony Hasson-Snell; Thomas R. Nordenholz

Associate Professor:

Michael Holden

Assistant Professor:

William Tsai

Lecturer:

Selina Pan

Professor Emeritus:

Stephen Pronchick

The mission of the Mechanical Engineering program is to produce entry-level professionals capable of applying their knowledge of science and engineering to the design, analysis, evaluation, and production of engineering devices and systems. It also provides students with the necessary academic preparation for further education and professional development in their chosen career.

MECHANICAL ENGINEERING (ME) MAJOR

The Mechanical Engineering curriculum provides a sound foundation for the practice of engineering through instruction in sciences and mathematics, computer applications, design, laboratory experiences, communication, the humanities, and the social sciences. The curriculum requires a core set of mechanical engineering courses in each of the two stems: energy design and mechanical design stems. A required two-course capstone design experience starts in the fall of the senior year. Computer applications and design experiences are integrated into several required courses and stem-specific electives.



Excellent facilities in circuits, instrumentation and measurements, controls, electromechanical machinery, materials/mechanical, manufacturing processes, and fluids/thermal laboratories further strengthen the instructional Mechanical Engineering program. Through selection of electives, students can choose to specialize in either the energy design stem or the mechanical design stem.

Students should visit the department's web page for a description of its assessment system. The assessment system includes a Program Educational Objectives (PEO) process and a Program Outcomes (PO) process.

The PEO process includes assessment tools such as external advisory board assessment, alumni survey assessment, employer survey assessment, Western Association of Schools and Colleges (WASC) assessment, and Engineering Accreditation Commission (EAC) of ABET Assessment.

The PO process includes student portfolios, instructor class assessment, student evaluations of instructor/course, cruise/co-op report assessment, senior project design assessment, graduating senior survey assessment, and course portfolios. These assessment tools are used to ensure that the ME program's educational mission and constituency needs are met. The results are further used to develop and improve the program.

The Mechanical Engineering program educational objectives are as follows:

Mechanical Engineering graduates of Cal Maritime will:

- be well educated professionals who utilize their intellectual learning, applied technology experience, leadership skills, and global awareness in successful careers, and continue to improve their skills through lifelong learning and advanced studies
- effectively practice as professional engineers, managers, and leaders in the maritime and energy industries and a wide variety other fields, and as licensed engineers in the merchant marine
- successfully combine fundamental engineering knowledge, core leadership skills, and the practical experience gained at Cal Maritime to turn ideas into reality for the benefit of society
- be influential members of multidisciplinary teams, creatively and effectively contributing to the design, development, and objective evaluation of engineering components, systems, and products, and clearly communicating the work in an appropriate manner to their customers and colleagues
- personally assume and actively encourage peers to uphold the professional, ethical, social and environmental responsibilities of their profession

The Mechanical Engineering program outcomes are as follows:

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economics, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- an ability to function on multidisciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- a recognition of the need for, and an ability to engage in life-long learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- an ability to apply principles of engineering, basic science, and mathematics (including multivariate calculus and differential equations) to model, analyze, design, and realize physical systems, components or processes
- an ability to work professionally in both thermal and mechanical systems areas
- an ability to apply the "hands-on" knowledge to solve/ understand engineering design problems/systems
- an ability to demonstrate leadership roles
- an ability to comprehend and convey technical information

OPTIONS WITHIN THE MECHANICAL ENGINEERING PROGRAM

The ME program at Cal Maritime has two options that students may follow to obtain their degree: a license option and a non-license option. Both options result in a Bachelor of Science degree in Mechanical Engineering, and provide students with strong, hands-on experiences, along with an international experience to complement their engineering education. Both options have the same core ME curriculum, and were defined to maintain the mission of Cal Maritime and the four objectives of intellectual learning, applied technology, global awareness and leadership. Also, both options are essentially identical in the first year, allowing students to explore their interests before deciding upon an option. All students, regardless of their option, are part of the Corps of Cadets, which is the focal point for the leadership facet of our mission.

LICENSE OPTION

The ME license option is designed for students who wish to use their engineering degree as a licensed marine engineer. The curriculum consists of the core ME courses, and additional courses intended to provide additional training for a marine engineer, much of which is required to obtain the merchant marine Third Assistant Engineer's license. Students are required to obtain experience at sea through three summer cruises, two of them aboard the *Training Ship GOLDEN BEAR*, and one aboard a commercial vessel.

In addition, students in the license option must pass a qualifying examination, administered by the U.S. Coast Guard, to obtain a Third Assistant Engineer, Steam, Motor and Gas Turbine Vessels, Unlimited Horsepower license.

This is clearly a very demanding option. Nonetheless, many of the ME students at Cal Maritime choose this option. For these students, sailing is the reason they chose to study at Cal Maritime, and this option serves them well.

NON-LICENSE OPTION

The ME non-license option is intended for students who are not specifically interested in pursuing a career in the merchant marine as a licensed engineer. Students take the core ME courses, which combine traditional engineering courses with practical training. One cruise experience is required. This practical training and the cruise experience distinguish Cal Maritime from many other engineering schools, and is excellent preparation for anyone entering the engineering profession. In addition to one cruise, two summer internships with industry are required in the ME non-license option.

MINOR IN POWER GENERATION

Students who pursue the ME non-license option may also, if they choose, acquire a minor in Power Generation.

In addition to the general requirements for earning a minor at Cal Maritime, and to receive a transcript notation of having completed the specific requirements for a minor in Power Generation, the student will have completed 15 units of the courses listed below.

The additional courses provide exposure and practical experience with traditional (steam, diesel), as well as alternative and renewable power generation systems. Students with this minor would typically seek careers in shoreside facilities.

Courses required for the Power Generation minor:

	Units
ENG 440 Power Engineering.....	3
ENG 440L Power Engineering Lab.....	1
EPO 210 Plant Operations II.....	1
EPO 214 Boilers.....	3
EPO 230 Steam Plant System Operations.....	1
EPO 315 Steam Plant Watch Team Management.....	1
EPO 312 Turbines.....	3
EPO 319 Facilities Engineering Diagnostics Lab.....	1
EPO 321 Intro to Power Generation Plants.....	1

**MECHANICAL ENGINEERING MAJOR
ME NON-LICENSE OPTION (OPTIONAL POWER GENERATION MINOR)
CURRICULUM**

(Subject to Change)

TOTAL UNITS: 154

OPTIONAL POWER GENERATION MINOR COURSES ARE BOLDED.

ADDITIONAL UNITS MUST BE ADDED TO TOTAL FOR EACH SEMESTER.

Writing Proficiency Requirement:

All Junior students must demonstrate upper division writing competency as a graduation requirement. This may be fulfilled by passing either the Graduation Writing Exam or EGL 300 Advanced Writing.

FALL (Freshman Year)			SPRING (Freshman Year)			SPRING CRUISE (Freshman Year)		
CHE 100	Chemistry I	3.0	DL 105	Marine Survival	1.0	CRU 150	Sea Training I (Engine)	8.0
CHE 100L	Chemistry I Lab	1.0	DL 105L	Marine Survival Lab	1.0	EPO 220	Diesel Engineering I	2.0
EGL 100	English Composition	3.0	DL 105X	USCG Lifeboatman's Exam	0.0	Total		10.0
ELEC 21	Humanities Elective (Lower Division) ^{3&4}	3.0	ELEC 20	Critical Thinking Elective	3.0			
ENG 110	Intro to Engineering and Technology*	1.0	ELEC 21	Humanities Elective (Lower Division) ^{1&2}	3.0			
ENG 120	Engineering Communications*	2.0	EPO 110	Plant Operations I ^{3&4}	1.0			
EPO 110	Plant Operations I ^{1&2}	1.0	EPO 125	Intro to Marine Engineering ^{3&4}	3.0			
EPO 125	Intro to Marine Engineering ^{1&2}	3.0	EPO 213	Welding Lab ^{3&4}	1.0			
EPO 213	Welding Lab ^{1&2}	1.0	MTH 211	Calculus II	4.0			
MTH 210	Calculus I	4.0	PHY 200	Engineering Physics I	3.0			
PE 100	Beginning/Intermediate Swimming	(.5)	PHY 200L	Engineering Physics I Lab	1.0			
Total		17.0	Total		18.0	OR		16.0
FALL (Sophomore Year)			SPRING (Sophomore Year)			SPRING CO-OP (Sophomore Year)		
ENG 210	Engineering Computer Programming	2.0	ENG 250	Electrical Circ & Electronics*	3.0	CEP 250	ME Co-Op I	3.0
EPO 210	Plant Operations II	1.0	ENG 250L	Electrical Circ & Electronics Lab*	1.0	Total		3.0
EPO 215	Manufacturing Processes I	2.0	EPO 214	Boilers	3.0			
ME 220	Computer Aided Engineering*	3.0	EPO 230	Steam Plant System Operations	1.0			
ME 230	Engineering Materials*	3.0	ME 240	Engineering Thermodynamics*	3.0			
ME 232	Engineering Statics*	4.0	ME 330	Engineering Dynamics*	3.0			
MTH 212	Calculus III	4.0	ME 332	Mechanics of Materials*	3.0			
PHY 205	Engineering Physics II	9.0	MTH 215	Differential Equations	4.0			
Total		9.0	Total		17.0			
FALL (Junior Year)			SPRING (Junior Year)			SPRING CO-OP (Junior Year)		
ENG 300	Engineering Numerical Analysis*	4.0	EGL 300	Advanced Writing	(3.0)	CEP 350	ME Co-Op II	3.0
EPO 235	Steam Plant Watch Team Mgmt	1.0	ME 339	Material/Mechanical Lab*	2.0	Total		3.0
EPO 312	Turbines	3.0	ME 344	Heat Transfer*	3.0			
EPO 319	Facilities Engr Diagnostics Lab	1.0	ME 392	Mechanical Design*	3.0			
EPO 321	Intro to Power Generation Plants	1.0	ME 460	Automatic Feedback Control*	3.0			
ME 340	Engineering Fluid Mechanics*	3.0	ME 460L	Automatic Feedback Control Lab*	1.0			
ME 350	Electromech Machinery*	3.0	ME 490	Engineering Design Process*	3.0			
ME 350L	Electromech Machinery Lab*	1.0	STEM 1	Stem Course (See Box)*	3.0			
ME 360	Instr. & Measurement Sys*	2.0	Total		18.0			
ME 360L	Instr. & Measurement Sys Lab*	1.0						
Total		14.0						
FALL (Senior Year)			SPRING (Senior Year)			STEM COURSES		
ELEC 8	American Institutions Elective	3.0	ELEC 9	American Institutions Elective	3.0	Energy Design Stem		
ELEC 31	Social Science Elective (Lower Division)	3.0	ELEC 22	Humanities Elective (Upper Division)	3.0	1 - ME 342 Refrigeration & A/C*		
ENG 440	Power Engineering	3.0	ENG 440L	Power Engineering Lab	1.0	OR		
ME 349	Fluid/Thermal Lab*	2.0	HUM 310	Engineering Ethics	3.0	1 - ME 440 Advanced Fluids & Thermo*		
ME 394	Fluid/Thermal Design*	3.0	ME 429	Manufacturing Processes Lab*	2.0	2 - ME 442 HVAC Design*		
ME 492	Project Design I*	3.0	ME 494	Project Design II*	3.0	3 - ME 444 Energy Systems Design*		
STEM 2	Stem Course (See Box)*	3.0	STEM 3	Stem Course (See Box)*	4.0			
Total		17.0	Total		18.0			
						Mechanical Design Stem		
						1 - ME 436 Mechatronic System Design*		
						2 - ME 430 Mechanical Vibrations*		
						3 - ME 432 Machinery Design*		

^{1&2} Divisions 1&2 cadets take course

^{3&4} Divisions 3&4 cadets take course

* Courses in Major (CGPA = 2.0 is required)

**MECHANICAL ENGINEERING MAJOR
THIRD ASSISTANT ENGINEER'S LICENSE OPTION
CURRICULUM**

(Subject to Change)

TOTAL UNITS: 164

**THIRD ASSISTANT ENGINEER'S/OICEW LICENSE REQUIRED FOR GRADUATION
THIRD ASSISTANT ENGINEER'S LICENSE COURSES ARE BOLDED. ADDITIONAL
UNITS MUST BE ADDED TO TOTAL FOR EACH SEMESTER.**

Writing Proficiency Requirement:

All Junior students must demonstrate upper division writing competency as a graduation requirement. This may be fulfilled by passing either the Graduation Writing Exam or EGL 300 Advanced Writing.

FALL (Freshman Year) CHE 100 Chemistry I 3.0 CHE 100L Chemistry I Lab 1.0 EGL 100 English Composition 3.0 ELEC 21 Humanities Elective (Lower Div.) ^{3&4} 3.0 ENG 110 Intro to Engineering and Technology* 1.0 ENG 120 Engineering Communications* 2.0 EPO 110 Plant Operations I ^{1&2} 1.0 EPO 125 Intro to Marine Engineering ^{1&2} 3.0 EPO 213 Welding Lab ^{1&2} 1.0 MTH 110 Calculus I 4.0 NSC 100 Naval Science for the MMO ^{3&4} 3.0 PE 100 Beginning/Intermediate Swimming (.5) Total 17.0 OR 19.0	SPRING (Freshman Year) DL 105 Marine Survival 1.0 DL 105L Marine Survival Lab 1.0 DL 105X USCG Lifeboatman's Exam 0.0 ELEC 20 Critical Thinking Elective 3.0 ELEC 21 Humanities Elective (Lower Div.) ^{1&2} 3.0 EPO 110 Plant Operations I ^{3&4} 1.0 EPO 125 Intro to Marine Engineering ^{3&4} 3.0 EPO 213 Welding Lab ^{3&4} 1.0 MTH 211 Calculus II 4.0 NSC 100 Naval Science for the MMO ^{1&2} 3.0 PHY 200 Engineering Physics I 3.0 PHY 200L Engineering Physics I Lab 1.0 Total 18.0 OR 16.0	SPRING CRUISE (Freshman Year) CRU 150 Sea Training I (Engine) 8.0 EPO 220 Diesel Engineering I 2.0 Total 10.0
FALL (Sophomore Year) ENG 210 Engineering Computer Programming 2.0 EPO 210 Plant Operations II 1.0 EPO 215 Manufacturing Processes I 1.0 ME 220 Computer Aided Engineering* 2.0 ME 230 Engineering Materials* 3.0 ME 232 Engineering Statics* 3.0 MTH 212 Calculus III 4.0 PHY 205 Engineering Physics II 4.0 Total 19.0	SPRING (Sophomore Year) ENG 250 Electrical Circ & Electronics* 3.0 ENG 250L Electrical Circ & Electronics Lab* 1.0 EPO 214 Boilers 3.0 EPO 230 Steam Plant System Operations 1.0 ME 240 Engineering Thermodynamics* 3.0 ME 330 Engineering Dynamics* 3.0 ME 332 Mechanics of Materials* 3.0 MTH 215 Differential Equations 4.0 Total 17.0	SPRING CRUISE (Sophomore Year) CRU 250 Sea Training II (Engine) 8.0 Total 8.0
FALL (Junior Year) ENG 300 Engineering Numerical Analysis* 4.0 EPO 235 Steam Plant Watch Team Mgmt 1.0 EPO 312 Turbines 3.0 EPO 322 Diesel Engr II/Simulator 1.0 EPO 322L Diesel Engr II/Simulator Lab 1.0 FF 200 Basic/Adv Marine Firefighting ^{3&4} 0.0 ME 340 Engineering Fluid Mechanics* 3.0 ME 350 Electromech Machinery* 3.0 ME 350L Electromech Machinery Lab* 1.0 ME 360 Instr. & Measurement Sys* 2.0 ME 360L Instr. & Measurement Sys Lab* 1.0 Total 14.0	SPRING (Junior Year) EGL 300 Advanced Writing (3.0) EPO 310 Plant Operations III 1.0 FF 200 Basic/Adv Marine Firefighting ^{1&2} 0.0 ME 339 Material/Mechanical Lab* 2.0 ME 344 Heat Transfer* 3.0 ME 392 Mechanical Design* 3.0 ME 460 Automatic Feedback Control* 3.0 ME 460L Automatic Feedback Control Lab* 1.0 ME 490 Engineering Design Process* 3.0 STEM 1 Stem Course (See Box)* 3.0 Total 18.0	SPRING CRUISE (Junior Year) CRU 350 Sea Training III (Engine) 8.0 Total 8.0
FALL (Senior Year) ELEC 8 American Institutions Elective 3.0 ELEC 31 Social Science Elective (Lower Div.) 3.0 ENG 430 Naval Architecture 3.0 ME 349 Fluid/Thermal Lab* 2.0 ME 394 Fluid/Thermal Design* 3.0 ME 492 Project Design I* 3.0 STEM 2 Stem Course (See Box)* 3.0 Total 17.0	SPRING (Senior Year) ELEC 9 American Institutions Elective 3.0 ELEC 22 Humanities Elective (Upper Div.) 3.0 EPO 217 Shipboard Medical 1.0 HUM 310 Engineering Ethics 3.0 ME 429 Manufacturing Processes Lab* 2.0 ME 494 Project Design II* 3.0 STEM 3 Stem Course (See Box)* 4.0 Total 18.0	STEM COURSES Energy Design Stem 1 - ME 342 Refrigeration & A/C* OR 1 - ME 440 Advanced Fluids & Thermo* 2 - ME 442 HVAC Design* 3 - ME 444 Energy Systems Design* Mechanical Design Stem 1 - ME 436 Mechatronic System Design* 2 - ME 430 Mechanical Vibrations* 3 - ME 432 Machinery Design*

^{1&2} Divisions 1&2 cadets take course

^{3&4} Divisions 3&4 cadets take course

* Courses in Major (CGPA = 2.0 is required)

◆ STCW Courses (Must receive a "C-" or higher, or "CR")

MECHANICAL ENGINEERING COURSES

The following courses are offered by the department of Mechanical Engineering:

COOPERATIVE EDUCATION

CEP 185.	Study Abroad Elective
CEP 250.	ME Co-Op I
CEP 350.	ME Co-Op II
CEP 385.	Study Abroad Elective
CEP 390.	Independent Study
CEP 395.	Special Topics

ENGINEERING

ENG 110.	Introduction to Engineering and Technology
ENG 120.	Engineering Communications
ENG 185.	Study Abroad Elective
ENG 210.	Engineering Computer Programming
ENG 250.	Electrical Circuits and Electronics
ENG 250L.	Electrical Circuits and Electronics Lab
ENG 300.	Engineering Numerical Analysis
ENG 385.	Study Abroad Elective
ENG 390.	Independent Study
ENG 395.	Special Topics
ENG 440.	Power Engineering
ENG 440L.	Power Engineering Lab

HUMANITIES

HUM 185.	Study Abroad Elective
HUM 310.	Engineering Ethics
HUM 385.	Study Abroad Elective
HUM 390.	Independent Study
HUM 395.	Special Topics

MECHANICAL ENGINEERING

ME 185.	Study Abroad Elective
ME 220.	Computer Aided Engineering
ME 230.	Engineering Materials
ME 232.	Engineering Statics
ME 240.	Engineering Thermodynamics
ME 330.	Engineering Dynamics
ME 332.	Mechanics of Materials
ME 339.	Material/Mechanical Lab
ME 339L.	Material/Mechanical Lab Lab
ME 340.	Engineering Fluid Mechanics
ME 342.	Refrigeration and Air Conditioning
ME 344.	Heat Transfer
ME 349.	Fluid/Thermal Lab
ME 349L.	Fluid/Thermal Lab Lab
ME 350.	Electromechanical Machinery
ME 350L.	Electromechanical Machinery Lab
ME 360.	Instrumentation And Measurement Systems
ME 360L.	Instrumentation And Measurement Systems Lab
ME 385.	Study Abroad Elective
ME 390.	Independent Study
ME 392.	Mechanical Design
ME 394.	Fluid/Thermal Design
ME 395.	Special Topics
ME 429.	Manufacturing Processes Lab
ME 430.	Mechanical Vibrations
ME 432.	Machinery Design
ME 436.	Mechatronic System Design
ME 440.	Advanced Fluid Mechanics and Thermodynamics
ME 442.	Heating, Ventilation, and Air Conditioning
ME 444.	Energy Systems Design
ME 460.	Automatic Feedback Control
ME 460L.	Automatic Feedback Control Lab
ME 490.	Engineering Design Process
ME 492.	Project Design I
ME 494.	Project Design II

NAVAL SCIENCE

FACULTY AND STAFF

Officer-in-Charge and Chair:

LT Chad Mickelson, USN

Admin. Officer/Instructor:

LT Jacob Schlachter, USN

Administrative Assistant:

Toni Vasquez

The department of Naval Science administers the Naval Science courses on campus as well as Cal Maritime’s Strategic Sealift Officer Program (SSOP) unit. Naval Science courses cover subjects such as ethics, naval operations, the history of the U.S. Navy and merchant marine, ship communications, national defense organization, underway replenishment, anti-terrorism/force-protection fundamentals, convoy tactics, and naval tradition.

ABOUT SSOP DET-71

The Strategic Sealift Officer Program, Detachment 71, is an officer accessions training unit that produces merchant marine officers for the U.S. Navy Reserve. Participating license-track students may be eligible for:

- Student Incentive Pay (SIP)
- advanced leadership training
- participation in community service events
- U.S. Navy Reserve officer commission upon graduation
- option to apply for active-duty commission in the U.S. Navy

Become a part of a proud tradition by joining SSOP DET-71! Learn more at: <http://www.csum.edu/web/admissions/military-options>

NAVAL SCIENCE MINOR

In addition to the general requirements for earning a minor at Cal Maritime, and to receive a transcript notation of having completed the specific requirements for a minor in Naval Science, the student will have completed at least 15 units from the following curriculum:

All students must complete the following courses:

	Units
NSC 200 Naval Science for the Merchant Marine Reservist I	3
NSC 400 Leadership, Ethics, and Naval Science for the Merchant Marine Reservist II	4

Plus at least 8 units from the following courses:

	Units
NSC 100 Naval Science for the MMO.....	3
(only for non-licensed majors)	
NSC 255 Midshipman Naval Training Cruise (in conjunction with CRU 200 or CRU 250)	3
NSC 310 Naval Operations.....	4
and	
NSC 310L Naval Operations Lab	0
NSC 315 Navigation (for engineers)	4
and	
NSC 315L Navigation Lab (for engineers)	0
NSC 390 Independent Study in Naval Science.....	3
(may be used in lieu of NSC 310 with Chair approval)	
NSC 450 Advanced Midshipman Naval Training.....	1
(one unit per semester up to a total of five units)	

NAVAL SCIENCE COURSES

The following courses are offered by the department of Naval Science:

- NSC 100.** Naval Science for the Merchant Marine Officer
- NSC 185.** Study Abroad Elective
- NSC 200.** Naval Science for the Merchant Marine Reservist I
- NSC 255.** Midshipman Naval Training Cruise
- NSC 310.** Naval Operations
- NSC 310L.** Naval Operations Lab
- NSC 315.** Navigation (for Engrs)
- NSC 315L.** Navigation Lab (for Engrs)
- NSC 385.** Study Abroad Elective
- NSC 390.** Independent Study
- NSC 395.** Special Topics
- NSC 400.** Leadership, Ethics, and Naval Science for the Merchant Marine Reservist II
- NSC 450.** Advanced Midshipman Naval Training

SCIENCES AND MATHEMATICS

FACULTY

Professor:

Jaya Punglia

Associate Professor:

Cynthia Trevisan (Chair)

Assistant Professors:

Taiyo Inoue; Alexander Parker; Brent Pohlmann; Steven Runyon; Frank Yip

Lecturers:

Matthew Fairbanks; Olga Gutkina; Tracey Johnson; Kevin Klapstein; Sharon Lynch; JoAnne Strickland

Professor Emeriti:

Lloyd Kitazono; Carl L. Mampaey; James Wheeler

The department of Sciences and Mathematics provides students with foundational skills in sciences, mathematics, and computer sciences that they will apply in their major fields. In addition, the department provides students courses in sciences, mathematics, computer sciences that meet the CSU educational requirements for depth and breadth. The goal of the department is to give students the skill-sets so that they will know how to: acquire basic quantitative information, analyze the information, solve problems, formulate conclusions and alternate solutions, and create predictive models.

DEPARTMENT MISSION STATEMENT

The mission of the department of Sciences and Mathematics is to help students master foundational skills in sciences and mathematics that they will apply in their major fields of study, their careers, and their lives.

MARINE SCIENCE MINOR

The Marine Science minor is designed for students who are interested in pursuing a career working on research vessels, continuing their studies in marine sciences, or who are otherwise interested in marine sciences.

In addition to the general requirements for earning a minor at Cal Maritime, and to receive a transcript notation of having completed the specific requirements for a minor in Marine Science, the student will have completed at least 15 units from the following curriculum:

All students must complete the following course:

	Units
MSC 390 Independent Study.....	3

MSC 390 is a culminating project or term paper usually completed during the student’s senior year but it may be completed earlier.

Plus at least 9 units of the following oceanography courses:

	Units
MSC 100 Intro. to Geological & Chemical Oceanography.....	3
MSC 105 Intro. to Biological & Physical Oceanography.....	3
MSC 200 Oceanographic Instruments and Analysis	3
MSC 205 Marine Biology.....	3

Additional courses from the following may be used to make a total of at least 15 units for the minor:

	Units
GMA 105 Ocean Politics	3
(not for Global Studies majors)	
NAU 330 Meteorology 3	
(not for Marine Transportation majors)	

Minor Advisor:

Alexander Parker, Ph.D.

SCIENCE AND MATHEMATICS COURSES

The following courses are offered by the department of Sciences and Mathematics:

CHEMISTRY

- CHE 100.** Chemistry I
- CHE 100L.** Chemistry I Lab
- CHE 185.** Study Abroad Elective
- CHE 205.** Chemistry of Plant Processes
- CHE 385.** Study Abroad Elective
- CHE 390.** Independent Study
- CHE 395.** Special Topics

COMPUTERS

- COM 100.** Introduction to Computers
- COM 185.** Study Abroad Elective
- COM 385.** Study Abroad Elective
- COM 390.** Independent Study
- COM 395.** Special Topics

MARINE SCIENCE

- MSC 100.** Introduction to Geological and Chemical Oceanography
- MSC 105.** Introduction to Biological and Physical Oceanography
- MSC 185.** Study Abroad Elective
- MSC 200.** Oceanographic Instruments and Analysis
- MSC 205.** Marine Biology
- MSC 385.** Study Abroad Elective
- MSC 390.** Independent Study
- MSC 395.** Special Topics

MATHEMATICS

- MTH 100.** College Algebra and Trigonometry
- MTH 105.** Finite Math
- MTH 107.** Elementary Statistics
- MTH 185.** Study Abroad Elective
- MTH 205.** Calculus For Business
- MTH 210.** Calculus I
- MTH 211.** Calculus II
- MTH 212.** Calculus III
- MTH 215.** Differential Equations
- MTH 385.** Study Abroad Elective
- MTH 390.** Independent Study
- MTH 395.** Special Topics

PHYSICS

- PHY 100.** Physics I
- PHY 100L.** Physics I Lab
- PHY 105.** Physics II
- PHY 185.** Study Abroad Elective
- PHY 200.** Engineering Physics I
- PHY 200L.** Engineering Physics I Lab
- PHY 205.** Engineering Physics II
- PHY 385.** Study Abroad Elective
- PHY 390.** Independent Study
- PHY 395.** Special Topics

**UNDERGRADUATE
COURSE DESCRIPTIONS**

DEFINITIONS

A prerequisite is an academic requirement that must be completed prior to enrolling in a course.

A co-requisite is an academic requirement that must be taken concurrently with a course.

◆ Denotes a course that fulfills STCW (Standards of Training, Certification, and Watchkeeping for Seafarers) requirements. US Coast Guard license program students must achieve a grade of C- or higher in order to pass an STCW course.

(CSL) Denotes that these courses have a community service component, which may be in addition to regular class hours or part of the course itself, as indicated.

ACADEMIC DEPARTMENT/SCHOOL DESIGNATIONS

- ATH** Athletics
- CC** Culture & Communication
- ET** Engineering Technology
- XL** Extended Learning
- LIB** Library
- MT** Marine Transportation
- MPM** Maritime Policy and Management
- ME** Mechanical Engineering
- NS** Naval Science
- SM** Sciences & Mathematics

The academic department designation with the course description determines the department that hosts the course.

All courses are graded using the A–F system unless otherwise specified.

COURSE NUMBERING SYSTEM

- 0 – 99: remedial courses (not applicable to degree)
- 100 – 299: lower division
- 300 – 499: upper division

BUSINESS

BUS 100. ACCOUNTING PRINCIPLES I: FINANCIAL
CLASS HOURS: 3, CREDIT: 3

Prerequisite: None

An overview of the financial accounting principles within which a company functions. Topics include measuring income, establishing financial position, and reporting the results of the accounting cycle.

MPM

BUS 101. ACCOUNTING PRINCIPLES II: MANAGERIAL
CLASS HOURS: 3, CREDIT: 3

Prerequisite: BUS 100

A study of planning and controlling business operations. The course includes data analysis, budgets, product costing and pricing, and quantitative decision-making.

MPM

BUS 120. THE ENVIRONMENT OF MODERN BUSINESS
CLASS HOURS: 3, CREDIT: 3

Prerequisite: None

A survey course to introduce the student to the various issues relating to modern business. Topics to be covered include management, operations, human behavior in business settings, human resources, marketing, financial management and planning both personal and enterprise, and business ethical issues. The focus of the course will be the different aspects of business practices today, the interaction between global business, people, and governments, and the issues facing enterprises large and small. Business career opportunities will also be addressed.

MPM

BUS 165. BUSINESS DECISION ANALYSIS**CLASS HOURS: 3, CREDIT: 3****Prerequisite: MTH 100**

An overview of concepts and quantitative tools as aids in managerial decision making. The success of business executives and managers depends on their decision-making abilities and the sound knowledge they incorporate in their decision-making processes. Students will learn to utilize algebraic techniques and computer technology to solve business decision problems. They will be introduced to the concepts of probability and time value of money, their importance to business, and how to incorporate them in business problems and solve them. A wide range of business applications will be covered, including many from transportation, logistics, the maritime industry, and international business.

MPM**BUS 185. STUDY ABROAD ELECTIVE****MPM****BUS 195. CRUISE SPECIAL TOPICS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: BUS 190****Co-requisite: Cruise**

A set of special topics taught to business students on cruise. Topics will be related to specific cruise destinations, and reflect the expertise and interest of the instructor as well as the nature of the cruise. There may be a service learning component as determined by the instructor.

MPM**BUS 200. INTRODUCTION TO MARKETING****CLASS HOURS: 3, CREDIT: 3****Prerequisite: ECO 100**

An introduction to the marketing function in a business environment. The various marketing components of product, price, promotion, and place are examined in the context of the competitive business arena. Case studies and the analysis of marketing plans are discussed.

MPM**BUS 300. INTERNATIONAL BUSINESS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: ECO 100**

An introduction to the effects of multi-national operations on business strategy and decision making by exploring the economic, political, financial, legal, and social nature of the international environment. The formulation, selection, and implementation of multi-national strategies are examined in the context of the global business environment.

MPM**BUS 301. INTERNATIONAL BUSINESS II –
COUNTRY RESEARCH ANALYSIS AND
GLOBAL MARKETING****CLASS HOURS: 3, CREDIT: 3****Prerequisite: Senior Class Standing or
Chair Approval**

A deeper exploration of major issues related to doing business globally, such as environment, supply chain competition, regulation, security, exchange rates and international finance, and legal and cultural issues. Focus will be principally maritime and transport related. Students learn through case studies and research and analysis of specific country information from major international organizations.

MPM

BUS 302. PRINCIPLES OF RESEARCH DESIGN, IMPLEMENTATION & ANALYSIS
CLASS HOURS: 3, CREDIT: 3

Prerequisite: MTH 107, or an equivalent sophomore level statistics course from transfer credits or another Cal Maritime department.

Co-requisite: BUS 302L

An introduction to quantitative and qualitative research methodologies. The classroom presentations will focus on theory and examples; the lab will give students an opportunity to put theory into practice by designing, implementing and analyzing a business research project. Student teams will conduct work on the projects. Within the teams there will be a cross-functional approach so that each student will be involved in assignments that involve all major aspects of the research project. In addition to the usual evaluation by the professor, peer evaluation will round out the students' project experiences.

MPM

BUS 302L. PRINCIPLES OF RESEARCH DESIGN, IMPLEMENTATION & ANALYSIS LAB
LAB HOURS: 2, CREDIT: 1

Prerequisite: Same as BUS 302

Co-requisite: BUS 302

MPM

BUS 310. FINANCIAL MANAGEMENT
CLASS HOURS: 3, CREDIT: 3

Prerequisite: BUS 101, MTH 107, MTH 205

An introduction to the management and formation of capital, the finance function and its environment, techniques of financial analysis, planning and control, management of working capital, capital budgeting, cost of capital, money and capital market analysis, and management of capital structure.

MPM

BUS 385. STUDY ABROAD ELECTIVE

MPM

BUS 390. INDEPENDENT STUDY

MPM

BUS 395. SPECIAL TOPICS

MPM

BUS 400. BUSINESS AND SOCIETY
CLASS HOURS: 3, CREDIT: 3

Prerequisite: ECO 101

An analysis of the American business system in terms of socioeconomic and political constraints imposed upon business organizations by external environments. Special reference to ethical issues in business, corporate social responsibility, and profit maximization.

MPM

BUS 405. LEADERSHIP AND GROUP DYNAMICS

CLASS HOURS: 3, CREDIT: 3

Prerequisite: Senior Class Standing

A study of the behavioral and psychological aspects of leadership in the business environment. Behavioral concepts include practical training in how to follow, development of skills in leadership, communication, team membership, and management of personal stress. Psychological concepts include attitude development, corporate culture values, and personality assessment. In addition, students perform a detailed leadership analysis of their co-op (or other work experience, with instructor's approval), resulting in a professional paper, and an oral presentation in class.

MPM

CHEMISTRY**CHE 100. CHEMISTRY I****CLASS HOURS: 3, CREDIT: 3****Prerequisite: None****Co-requisite: CHE 100L**

An intensive survey of the fundamental principles of chemistry, with a focus on atomic and molecular structure, atomic and hybrid orbital theories, stoichiometry, bonding theories including molecular orbital theory, molecular geometry, thermochemistry, and the states of matter.

SM**CHE 100L. CHEMISTRY I LAB****LAB HOURS: 3, CREDIT: 1****Co-requisite: CHE 100**

As a co-requisite, this course is designed to expand upon as well as reinforce chemical concepts introduced in CHE 100 and introduce students to processes, hardware, instruments and techniques employed in a chemistry laboratory environment. Topics addressed during experiments include metric measurement, properties of chemicals, emission spectra, bonding, Avogadro's Number, reaction stoichiometry, the ideal gas law, thermochemistry, and solutions.

SM**CHE 185. STUDY ABROAD ELECTIVE****SM****CHE 205. CHEMISTRY OF PLANT PROCESSES****CLASS HOURS: 3, CREDIT: 3****Prerequisite: CHE 100, CHE 100L**

An examination of the role that water plays in production and power plant processes. Emphasis on the nature of liquid mixtures, including equilibrium concepts as they relate to solution chemistry, sources and types of organic and inorganic water contamination, the quantification of water contamination and the pre-treatment and post-treatment of water utilized in plant processes.

SM**CHE 385. STUDY ABROAD ELECTIVE****SM****CHE 390. INDEPENDENT STUDY****SM****CHE 395. SPECIAL TOPICS****SM**

COMMUNITY SERVICE LEARNING**CSL 120. COMMUNITY SERVICE LEARNING****CLASS HOURS: 3****COMMUNITY SERVICE HOURS: 30****CREDIT: 3****Prerequisite: None**

An exceptional personalized and mandatory community service-learning experience where students apply their academic knowledge and skills to community-based issues and needs. This experiential based approach will be combined with a series of lectures and discussions covering issues related to students' community service learning. Guest speakers and readings are used to acquaint students with a variety of topics related to their service activities. In addition, students take part in regular reflection activities where they critically analyze their personal service experience from a number of different perspectives.

CC**CSL 185. STUDY ABOARD ELECTIVE****CC****CSL 210. DYING: THE FINAL STAGE OF LIVING****CLASS HOURS: 3****COMMUNITY SERVICE HOURS: 10****CREDIT: 3****Prerequisite: None****Co-requisite: EGL 100**

In this unique course, students learn to view death, the final stage of growth, less as an adversary and more as a defining part of life. By reflecting on medical, cultural and religious responses to death in general terms, they are taught to understand and articulate the emotional and spiritual needs of the dying as human beings go through the process of daily living. This course also includes a mandatory community service-learning component, which requires students to work with the terminally ill and/or the bereaved through Kaiser Vallejo's Hospice Department.

CC**CSL 385. STUDY ABROAD ELECTIVE****CC****CSL 390. INDEPENDENT STUDY****CC****CSL 395. SPECIAL TOPICS****CC**

Other courses that include a Community Service Learning component are:

EGL 110. SPEECH COMMUNICATION**HIS 300. MARITIME HISTORY OF THE U.S.****HUM 400. ETHICS**

COMPUTING**COM 100. INTRODUCTION TO COMPUTERS
CLASS/LAB HOURS: 2, CREDIT: 2****Prerequisite: None**

An introduction to basic word processing, presentation software, spreadsheet software and simple database operations.

SM**COM 185. STUDY ABROAD ELECTIVE****SM****COM 220L. PROGRAMMING APPLICATIONS
FOR ENGINEERING TECHNOLOGY
MAJORS LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite: None**

An introduction for Engineering Technology students to the skills needed to utilize the basic operations of the TI-89 calculator and computers in a modern engineering environment. The scope of this course will range from simple calculations commonly found in engineering applications to the more complex operations necessary to evaluate physical phenomena in the real world. Common computer applications such as Microsoft Excel, Mathematica, MATLAB, and LabView will be used to analyze engineering situations, perform data manipulation, solve problems, and analyze graphs.

ET**COM 385. STUDY ABROAD ELECTIVE****SM****COM 390. INDEPENDENT STUDY****SM****COM 395. SPECIAL TOPICS****SM****COOPERATIVE EDUCATION****CEP 185. STUDY ABROAD ELECTIVE****ME, ET, BA, GMS****CEP 250. ME CO-OP I****CREDIT: 3****Prerequisite: Sophomore Class Standing**

The first of two summer co-ops required for some students in the Mechanical Engineering program. It requires the student to work onsite in an industry, research facility, or research institution under a cooperative education training agreement for a 2-3 month period. Students will encounter practical work and current research experiences. These experiences will vary with the participating companies, facilities, and institutions. The student will work in a paid position under a degreed engineering supervisor in cooperation with the Career Development center.

ME**CEP 270. FET CO-OP I****CREDIT: 3****Prerequisite: CRU 150, Sophomore Class Standing**

The first of two summer co-ops required for the Facilities Engineering Technology major. It requires the student to work in industry under a cooperative education training agreement by working onsite for a 2-month period. Students will encounter current and practical work experience with various facilities.

ET

CEP 300. BUSINESS INDUSTRY CO-OP I
CREDIT: 3**Prerequisite: Permission of the Chair**

An opportunity to spend time in a domestic work environment that has been setup by the Business department. The student is expected to acquire practical learning outcomes in management, resource allocation, and business communications. The focus of this experience is to get employment in a company that will enhance the theoretical knowledge, improve the practical learning and build leadership and management skills.

MPM**CEP 330. GSMA CO-OP**
CREDIT: 3**Prerequisite: GMA 100, GMA 105**

An opportunity to gain experience in industry, government, and NGO settings in areas relevant to the GSMA major. Students apply classroom knowledge to real-world issues and bring the work experience back to the classroom to enrich their academic understanding of maritime policy concerns. Specific experience varies with the co-op setting, but includes written and oral communication skills, applied knowledge and opportunities for in-depth appreciation of a specific aspect of maritime security, environmental and other policy issues. Generally taken during the third summer, but may be taken at any time with the permission of the GSMA Co-Op coordinator and GMS department Chair.

MPM**CEP 350. ME CO-OP II**
CREDIT: 3**Prerequisite: CEP 250, Junior Class Standing**

The second and final of two summer co-ops required for some students in the Mechanical Engineering program. It requires the student to work onsite in an industry, research facility, or research institution under a cooperative education training agreement for a 2-3 month period. Students will encounter practical work and current research experiences. Experiences vary with the participating companies, facilities, and institutions but should include teamwork, communication, and engineering design problem-solving opportunities. The student will work in a paid position under a degreed engineering supervisor in cooperation with the Career Development center.

ME**CEP 370. FET CO-OP II**
CREDIT: 3**Prerequisite: CEP 270, Junior Class Standing**

The second and final of two summer cooperative education courses required by the Facilities Engineering Technology program. This course requires the student to work in industry under a cooperative education training agreement by working onsite for a 2-month period. Students will encounter current and practical work experience with various facilities.

ET**CEP 385. STUDY ABROAD ELECTIVE****ME, ET, MPM****CEP 390. INDEPENDENT STUDY****ME, ET, MPM****CEP 395. SPECIAL TOPICS****ME, ET, MPM**

CRUISE

A valid passport and successful completion of the USCG Lifeboatman's exam are required for all students embarking on all at-sea training cruises.

Also, during the year preceding commercial cruise, the student must not have been found guilty of violating Cal Maritime's drug and/or alcohol regulations, or state or federal laws involving drugs or alcohol, and must not have been on disciplinary probation during the prior term.

CRU 100. SEA TRAINING I (DECK) ♦ CREDIT: 8

Prerequisite: DL 100, DL 105, DL 105L, DL 105X, DL 109, DL 110, DL 115, DL 120, NAU 105, NAU 110

The first at-sea training experience for the student. During this period of training aboard the *Training Ship GOLDEN BEAR*, the emphasis is on ship familiarization, safety drills and training, basic deck watchstanding skills as helmsman and lookout, vessel maintenance and sanitation, and practical seamanship. Students will be required to demonstrate competencies in selected STCW 95 topics.

MT | Graded: Credit/No Credit

CRU 150. SEA TRAINING I (ENGINE) ♦ CREDIT: 8

Prerequisite: DL 105, DL 105L, DL 105X, EPO 110, EPO 125

The first at-sea training experience for the student. An introduction to the fundamentals of engineering systems operations and shipboard routine, including operation and monitoring techniques for diesel propulsion, electrical power generation, and evaporators and support equipment. Duties during emergency situations such as fire, abandon ship, and rescue are also learned. By the end of the cruise, the student will have demonstrated the required STCW competencies and understand basic power plant operation and maintenance.

ET

CRU 185. STUDY ABROAD ELECTIVE ET, MT

CRU 190. BASIC SAFETY TRAINING CLASS HOURS: 12; LAB HOURS: 12 CREDIT: 1

Prerequisite: Valid CPR and basic First Aid certification from a recognized EMS Organization

A primer in shipboard safety awareness for staff and students not involved in Coast Guard licensing. It provides basic training in lifesaving and firefighting procedures, modeled after the Coast Guard and IMO-approved BST matrix. It includes both knowledge-based topics and laboratory proficiencies in lifesaving and firefighting equipment usage as well as personal safety techniques.

MT | Graded: Credit/No Credit

CRU 195. INTRODUCTION TO MARITIME OPERATIONS (NON-LICENSE OPTION) CLASS HOURS: 1, CREDIT: 1

Prerequisite: CRU 190, or DL 105 and DL 105L

An introduction for students not involved in Coast Guard licensing, designed to introduce non-traditional maritime students to various shipboard operational requirements necessary to make modern sea-going vessels function efficiently.

MT | Graded: Credit/No Credit

CRU 200. SEA TRAINING II (DECK) CREDIT: 5

Prerequisite: CRU 100, DL 111, FCC Element 1, DL 325, DL 325L, EGL 100, NAU 102, NAU 102L, NAU 205, NAU 305

Co-requisite: CRU 200L

The student's second at-sea training experience. Students are required to participate in a sea training program aboard an approved commercial or federal vessel. The period of onboard training consists of either 60 days for minimum Coast Guard requirements or 90 days for the Tankerman PIC DL certification. During their training period students will document and analyze various aspects of shipboard operation and procedures as prescribed by the department. This guided analysis will constitute their project for which they will be issued a letter grade.

MT

CRU 200L. SEA TRAINING II LAB (DECK)**CREDIT: 3****Prerequisite: Same as for CRU 200****Co-requisite: CRU 200**

This at-sea training exposes students to the type of observations and tasks required by STCW 95. As a basis for grading this course, the student completes a comprehensive check list that parallels the STCW 95 standards for which they will be certified on CRU 300. This check list parallels STCW 95 competencies but does not provide certification or equivalency.

MT | Graded: Credit/No Credit**CRU 225. USCG SEA TRAINING II (DECK)****CREDIT: 5****Prerequisite: Same as for CRU 200****Must be fully accepted as a candidate in the CMAPPP Program**

The student's second at-sea training experience and is mandatory for all fully accepted students in the California Maritime Academy Pre-Commissioning Pilot Program (CMAPPP). Students are required to participate in a sea training program aboard an approved Coast Guard cutter. The period of onboard training consists of 60 days for minimum Coast Guard requirements. The objectives of the Cadet Training program are to expand the student's knowledge of Coast Guard operations and missions from the perspective of a junior officer; reinforce academic year programs and prior training experiences with hands-on experience; develop, in an operational environment, the specialized skills and knowledge necessary to become a successful career officer; reinforce professional competence, dedication, commitment, and a sense of service history; provide students hands-on experience with the interaction between chief petty officers and the wardroom; and provide each student the required seagoing experience.

MT**CRU 225L. USCG SEA TRAINING II LAB (DECK)****CREDIT: 3****Prerequisite: Same as for CRU 200L****Co-requisite: CRU 225**

This at-sea training exposes students to the type of observations and tasks required of ensigns in the Coast Guard in accordance with the Personnel Qualification Standard (PQS) and IMO STCW 95 certification. As a basis for grading this course, the student completes a comprehensive professional notebook of required USCG observations and tasks. Additionally, the workbook will parallel many STCW 95 standards for which they will be certified in CRU 300. This workbook parallels but does not certify nor is equivalent to STCW 95 competencies.

MT | Graded: Credit/No Credit**CRU 250. SEA TRAINING II (ENGINE)****CREDIT: 8****Prerequisite: CRU 150, EPO 110, EPO 125, EPO 210, EPO 213, EPO 215, and EPO 220 with no grade less than a C-**

The student's second at-sea training experience. Requires 60 days aboard a commercial or government vessel for students pursuing a USCG Third Assistant Engineer's license. A comprehensive engineering report and performance evaluations by the ship's engineering officers are the basis for course grading. The Commercial Cruise Project includes a journal of operational and maintenance experiences, technical descriptions and drawings of shipboard engineering systems, and a summary of measures to implement environmental and SOLAS regulations.

ET

**CRU 275. USCG SEA TRAINING II (ENGINE)
CREDIT: 8**

Prerequisite: CRU 150, EPO 210
Must be fully accepted as a candidate in the CMAPPP Program.

The student's second at-sea training experience. It is mandatory for all fully accepted students in the California Maritime Academy Pre-Commissioning Pilot Program (CMAPPP). Students are required to participate in a sea training program aboard a Coast Guard cutter. The period of onboard training consists of 60 days for minimum Coast Guard requirements. The objectives of the Cadet Training program are to expand the student's knowledge of Coast Guard operations and missions from the perspective of a junior officer; reinforce academic-year programs and prior training with hands-on experience; develop, in an engineering environment, the specialized skills and knowledge necessary to become a successful career officer; reinforce professional competence, dedication, commitment, and a sense of service history; provide students experience with the required interaction between chief petty officers and the ward room; and give each student a minimum of 60 days seagoing experience. A comprehensive report is required upon completion of the cruise.

ET

**CRU 300. SEA TRAINING III (DECK) ♦
CREDIT: 8**

Prerequisite: CRU 200 or CRU 225, CRU 200L or CRU 225L, DL 310, DL 311, DL 320, NAU 202, NAU 202L, NAU 302, NAU 302L, NAU 320, NAU 330, FCC Elements 1 and 7, FF 200

The third at-sea training experience for the student. During this period, the emphasis is on ship maneuvering skills, celestial navigation, collision avoidance, weather reporting, radio, communications, bridge team management, supervision of vessel maintenance, and bridge watchstanding as the cadet-in-charge. Students will be required to demonstrate competencies in STCW 95 selected topics.

MT | Graded: Credit/No Credit

**CRU 350. SEA TRAINING III (ENGINE) ♦
CREDIT: 8**

Prerequisite: CRU 250 or CRU 275, EPO 310, EPO 322, EPO 322L, ET 250 or ENG 250, ET 250L or ENG 250L, FF 200

The third at-sea training experience for the student. During this period, the student functions as the supervisor and assumes responsibility for the proper performance of the first-cruise students in engineering tasks. Responsibility are: as watch engineer, directly responsible to a licensed watch officer for the operation of all systems, ensuring that all data is properly taken and recorded and all duties properly performed; as daywork assistant, maintaining and repairing equipment and systems under the supervision of an instructor; and as engineering assistant, carrying out Third Assistant duties under the supervision of the Chief Engineer. By the end of the cruise, the student will have demonstrated required STCW competencies and be ready to stand watch as a Third Assistant Engineer.

ET

**CRU 385. STUDY ABROAD ELECTIVE
ET, MT**

**CRU 390. INDEPENDENT STUDY
ET, MT**

**CRU 395. SPECIAL TOPICS
ET, MT**

DECK LABS

DL 100. SMALL CRAFT OPERATIONS ♦ LAB HOURS: 3, CREDIT: 1

Prerequisite: DL 105, DL 105L, pass swimming assessment test or PE 100

An introduction to small boat/motor lifeboat operation. Practical training in small boat handling, with emphasis on maneuvering characteristics, relative motion, and small engine operation. The cadets will continue to develop and practice their leadership skills by acting as the boat operator/coxswain. As such, the acting boat operator/coxswain will be in charge of organizing the vessel crew into a functioning team able to carry out all aspects of small boat operations, from tying up and letting go to emergency procedures.

MT

DL 105. MARINE SURVIVAL ♦ CLASS HOURS: 1, CREDIT: 1

Prerequisite: Pass swimming assessment test or PE 100.

Co-requisite: DL 105L

A preparation for the U.S. Coast Guard Lifeboatman's endorsement. Students must pass this class with a C- or higher to qualify to take the USCG Lifeboatman's exam. This class conforms to the STCW requirements for personal survival training as well as components of the social responsibility requirement. Students will be instructed in the preparation, embarkation, and launching of survival craft and will become familiar with the correct use of all survival equipment, as well as the proper actions to take to preserve the lives of those in their charge.

MT

DL 105L. MARINE SURVIVAL LAB LAB HOURS: 2, CREDIT: 1

Prerequisite: Pass swimming assessment test or PE 100.

Co-requisite: DL 105

Hands-on training in basic personal and group survival techniques. Through a combination of multiple pool sessions and actual operation of survival craft, students will be given the skills required for the practical section of the U.S. Coast Guard Lifeboatman's endorsement. This course conforms to STCW requirements for personal survival training as well as components of the social responsibility requirement.

MT | Graded: Credit/No Credit

DL 105X. USCG LIFEBOATMAN'S EXAM CREDIT: 0

MT | Graded: Credit/No Credit

DL 109. INDUSTRIAL EQUIPMENT AND SAFETY LAB HOURS: 2, CREDIT: 1

Prerequisite: None

A preparation for Marine Transportation students to be able to safely engage in learning and work assignments aboard the *Training Ship GOLDEN BEAR*. It covers many basic safe work practices, personal protective equipment, hazard recognition, and regulatory requirements.

MT

DL 110. SHIP OPERATIONS I LAB HOURS: 3, CREDIT: 1

Prerequisite: DL 109, DL 115
(May be taken concurrently)

A hands-on introduction to day-to-day shipboard operational and maintenance routines under supervision from upper-class cadets and ship's officers. Structural maintenance, cleaning, lubrication, and various other work projects expected of the ordinary seaman will be undertaken. Students are instructed in power and specialty tools, safe work practices, and HazMat/pollution procedures.

MT | Graded: Credit/No Credit

DL 111. SHIP OPERATIONS II**LAB HOURS: 3, CREDIT: 1****Prerequisite:** DL 110, DL 115

A continuation of Ship Operations I, with additional emphasis placed on cruise preparation procedures and the work expectations of able-bodied seamen. Emphasis is placed on Marlinspike application, the ability to work with limited supervision, safe working habits, and the proper work ethic for jobs assigned, along with efficiency in the use of labor and material resources.

MT | Graded: Credit/No Credit**DL 115. MARLINSPIKE****LAB HOURS: 3, CREDIT: 1****Prerequisite:** None

An acquisition of a thorough working knowledge of rope-work, rigging and safety procedures, and various types of knots.

MT**DL 120. CARGO OPERATIONS****LAB HOURS: 3, CREDIT: 1****Prerequisite:** None

A practical instruction in various types of cargo handling equipment and rigs. Theoretical stress evaluation and cargo gear maintenance, cargo lifting and securing arrangements are covered. Students practice on cargo rig models, the *Training Ship GOLDEN BEAR*, and boat rigs, as well as taking field trips to observe local cargo handling facilities. Forklift training and safety certification are course requirements.

MT**DL 125. GRAPHICS****LAB HOURS: 2, CREDIT: 1****Prerequisite:** None

An introduction to interpreting engineering drawings. Material covered includes lettering, applied geometry, orthographic projections, free hand and isometric sketching, drawings of ship-board devices and equipment, and blueprint reading.

MT**DL 185. STUDY ABROAD ELECTIVE****MT****DL 240. GLOBAL MARITIME DISTRESS SAFETY SYSTEM (GMDSS) ♦****CLASS HOURS: 2, CREDIT: 2****Prerequisite:** MTH 100, PHY 100, PHY 100L**Co-requisite:** DL 240L

A comprehensive, STCW 95-compliant exploration of how to use a marine VHF radio, the Maritime Mobile Service and the Maritime Mobile Satellite Service. Students will demonstrate a theoretical knowledge of equipment compliance, electronic communications systems, calling procedures, distress alerting techniques, and marine safety information. Course leads to FCC licensing for Marine Radio Operator Permit (Element 1) and GMDSS Operator's License (Element 7).

MT | Note: Additional fee required**DL 240L. GLOBAL MARITIME DISTRESS SAFETY SYSTEM (GMDSS) LAB ♦****LAB HOURS: 2, CREDIT: 1****Prerequisite:** Same as for DL 240**Co-requisite:** DL 240

A comprehensive STCW 95-compliant lab designed to give students hands-on experience using equipment in the Maritime Mobile Service and the Maritime Mobile Satellite Service. Includes a 24-hour communications watch on CRU 300.

MT**DL 305. TUG AND BARGE****LAB HOURS: 3, CREDIT: 1****Prerequisite:** DL 100

An introduction to the specific operations required of towing and pushing vessels. Students are supervised in the use of Cal Maritime's tug and barge in specific towing operations.

MT

DL 310. MARINE SUPERVISORY LAB**LAB HOURS: 3, CREDIT: 1****Prerequisite:** DL 109, DL 110, DL 111, DL 115

An introduction to the supervisory skills required of first-level managers by means of supervising and directing groups of persons to competently accomplish individual work projects. Job planning, resource allocation, labor relations and personnel safety assurance are the primary objectives of the course.

MT**DL 311. MARINE MANAGEMENT LAB****LAB HOURS: 3, CREDIT: 1****Prerequisite:** DL 109, DL 110, DL 111, DL 115, DL 310

A continuation of DL 310, with new emphasis on complete project management as opposed to the supervision of individual job components. A complete array of management concepts, including labor relations, material and labor availability, safety and weather considerations, and regulatory compliance variables are stressed in successful project completion. Accountability is emphasized for the successful completion of assigned projects on time while maximizing utility of resources available. Project organization, pre-planning, and implementation are required as the vessel prepares for cruise departure. Students are introduced to material acquisition processes and paperwork requirements necessary to achieve project completion.

MT**DL 320. INTRODUCTION TO BRIDGE SIMULATION ♦****CLASS HOURS: 2, LAB HOURS: 2, CREDIT: 2****Prerequisite:** CRU 200L or CRU 225L, DL 240, DL 240L (May be taken concurrently)

An introduction to Cal Maritime's bridge simulator. Instructional emphasis is placed on standardized watchstanding methodology, practices, and task priorities.

MT | Graded: Credit/No Credit**DL 325. RADAR/ARPA ♦****CLASS HOURS: 2, CREDIT: 2****Prerequisite:** CRU 100, NAU 102, NAU 102L (may be taken concurrently), NAU 305 (May be taken concurrently), MTH 100, Sophomore class standing
Co-requisite: DL 325L

A comprehensive STCW-compliant emphasis on an understanding of RADAR/ARPA theory, factors affecting performance and accuracy, and the limitations of contact detection. Satisfactory completion of this course is a requirement for the issuance of a USCG Third Mate's license.

MT | Graded: Credit/No Credit**DL 325L. RADAR/ARPA LAB ♦****LAB HOURS: 4, CREDIT: 2****Co-requisite:** DL 325**MT | Graded: Credit/No Credit****DL 385. STUDY ABROAD ELECTIVE****MT****DL 390. INDEPENDENT STUDY****MT****DL 395. SPECIAL TOPICS****MT****DL 405. SHIPBOARD MEDICAL ♦****CLASS HOURS: 1, CREDIT: 1****Prerequisite:** Senior class standing**Co-requisite:** DL 405L

The practical application of the principles of advanced First Aid. Subjects include diagnosis and treatment of traumatic injuries, cardio-pulmonary resuscitation, shipboard sanitation, including certificates necessary for licensing and for Level 3 STCW.

MT

DL 405L. SHIPBOARD MEDICAL LAB ♦**LAB HOURS: 2, CREDIT: 1****Prerequisite:** Senior class standing**Co-requisite:** DL 405**MT****DL 410. SHIP HANDLING ♦****LAB HOURS: 3, CREDIT: 1****Prerequisite:** CRU 200, CRU 200L, DL 100, DL 105, DL 105L, Pass swimming test assessment or PE 100

A practical experience in shiphandling with vessels that are large enough to help gain an appreciation for ship-handling problems encountered with much larger vessels. Participants exercise “soft” landings, emergency procedures, mooring techniques and line handling, and collision avoidance.

MT**DL 420. WATCHSTANDING SIMULATION ♦****CLASS HOURS: 2, LAB HOURS: 2, CREDIT: 2****Prerequisite:** CRU 300, DL 240, DL 240L

A full mission bridge watchstanding simulator designed as a capstone course for senior students. The course objective is to assess basic watchstanding skills at the STCW 95 OICNW level.

MT | Graded: Credit/No Credit**ECONOMICS****ECO 100. MACROECONOMICS****CLASS HOURS: 3, CREDIT: 3****Prerequisite:** None

An introduction to basic economic methodology, analysis, and policy; economic institutions, organizations and industrial structure; the monetary system; measurement, determination and stability of national income; monetary, fiscal and balance of payment problems and policies.

MPM**ECO 101. MICROECONOMICS****CLASS HOURS: 3, CREDIT: 3****Prerequisite:** MTH 100**Recommended Prerequisite:** ECO 100

An introduction to microeconomics and the behavior of economic agents. The economic way of thinking is now very prominent in interpreting modern life, including global business activity. Microeconomics, fundamental in analysis of business and human behavior, is preferred because it gives quantitative predictions. Students analyze the allocation of scarce resources, costs of production, supply and demand, consumer preference, elasticity, and utility theory. They study determination of prices and output in competition and monopoly; the role of public policy, and comparative economic systems, and some modern views of agent behavior.

MPM**ECO 185. STUDY ABROAD ELECTIVE****MPM****ECO 200. ECONOMIC GEOGRAPHY****CLASS HOURS: 3, CREDIT: 3****Prerequisite:** None

An introduction to the commercial regions of the world, the pattern of production, distribution, and consumption, as well as contemporary industrial and commercial development are discussed.

MPM

ECO 305. MANAGERIAL ECONOMICS

CLASS HOURS: 3, CREDIT: 3

Prerequisite: ECO 101

An examination of the concepts of management decision-making using a knowledge of global economic forces. The focus of this class is on economic micro- and macro-theory to explain events in the local economy and foreign economies. Using logical observations of the economy, the course emphasizes the development of decision-making criteria behind strategic business decisions.

MPM

ECO 385. STUDY ABROAD ELECTIVE

MPM

ECO 390. INDEPENDENT STUDY

MPM

ECO 395. SPECIAL TOPICS

MPM

ELECTIVES

Scheduled general electives can be found in the searchable online class schedule. In the Class Search criteria, enter "ELEC" under Course Attribute to search for all electives. Additionally, use Course Attribute value for individual electives. These electives are also identified according to their designation within the five areas of the CSU General Education requirements.

ELEC 8 AMERICAN INSTITUTIONS ELECTIVES (AREA D)

HIS 100 U. S. History (to 1877)

HIS 101 U. S. History (from 1877)

ELEC 9 AMERICAN INSTITUTIONS ELECTIVES (AREA D)

GOV 200 American Government

ELEC 20 CRITICAL THINKING ELECTIVES (AREA A3)

EGL 220 Critical Thinking

ELEC 21 HUMANITIES ELECTIVES (LOWER DIVISION) (AREA C)

EGL 200 Introduction to Literature

HUM 100 Humanities

HUM 101 Culture: Pre-Renaissance

HUM 102 Culture: Post-Renaissance

HUM 110 World Culture Journeys

HUM 130 Creativity

HUM 195 Special Topics (3 units)

LAN 110 Spanish I

LAN 115 Spanish II

LAN 120 Chinese I

LAN 125 Chinese II

ELEC 22 HUMANITIES ELECTIVES (UPPER DIVISION) (AREA C)

EGL 305	Twentieth-Century American Literature
EGL 310	U.S. Literature of the Sea
EGL 315	World Literature of the Sea
EGL 320	Literature of the Fantastic
EGL 325	Creative Writing (3 units)
EGL 330	Literature and Psychology
HUM 300	Art of the Cinema
HUM 305	Comparative World Religions
HUM 310	Engineering Ethics
HUM 325	Globalization of Culture
HUM 395	Special Topics (3 units)
HUM 400	Ethics

ELEC 31 SOCIAL SCIENCE ELECTIVES (LOWER DIVISION) (AREA D)

CSL 120	Community Service Learning
CSL 210	Dying: The Final Stage of Living
ECO 100	Macroeconomics
ECO 101	Microeconomics
ECO 200	Economic Geography
GMA 100	Introduction to International Relations
GMA 102	World Regional Geography
GMA 105	Ocean Politics
GMA 120	Introduction to Environmental Policy
GMA 195	Special Topics (3 units)
GMA 215	Introduction to Comparative Politics
GMA 220	Comparative Maritime Policies
GMA 225	Southeast Asia: Maritime and Mainland
GMA 230	U.S. Maritime Policy
HIS 100	U.S. History (to 1877)
HIS 101	U.S. History (from 1877)
HIS 210	History of Latin America
LAW 200	Environmental Law
LDR 210	Foundations of Leadership

ELEC 32 SOCIAL SCIENCE ELECTIVES (UPPER DIVISION) (AREA D)

GMA 300	U.S. Foreign Policy
GMA 310	The Geopolitics of Energy
GMA 315	China and Its Neighbors
GMA 320	Ocean Environmental Management
GMA 330	Maritime Security
GMA 345	Asian Security
GMA 350	Political Geography
GMA 360	Globalization
GMA 395	Special Topics (3 units)
GMA 405	International Maritime Organizations
GMA 450	Special Topics in Maritime Policy
HIS 300	Maritime History of the U.S.
HIS 305	The World Since 1500
HIS 315	World Maritime History I
HIS 316	World Maritime History II
HIS 350	Race, Class, and Gender
HIS 360	Bay Area Maritime History
HIS 395	Special Topics (3 units)
LAW 300	International Law
TRA 305	Maritime Policy Seminar

ELEC 45 LIFELONG UNDERSTANDING ELECTIVES (AREA E)

BUS 120	The Environment of Modern Business
CSL 120	Community Service Learning
CSL 210	Dying: The Final Stage of Living
HUM 130	Creativity
LDR 210	Foundations of Leadership

ELEC 62 LIFE SCIENCE ELECTIVES (AREA B2)

MSC 105	Introduction to Biological & Physical Oceanography
MSC 205	Marine Biology

**ELEC 63/63L PHYSICAL SCIENCES
ELECTIVES (AREA B1/B3)****CHE 100/CHE** 100L Chemistry I/Lab**PHY 100/PHY** 100L Physics I/Lab**ELEC 70 MATHEMATICS ELECTIVES
(AREA B4)****MTH 100** College Algebra and Trigonometry**MTH 210** Calculus I**ELEC 81 FOREIGN LANGUAGE ELECTIVES
(AREA C)****LAN 110** Spanish I**LAN 120** Chinese I**ELEC 82 FOREIGN LANGUAGE ELECTIVES
(AREA C)****LAN 115** Spanish II**LAN 125** Chinese II**ELEC 90/91 MAJOR ELECTIVE**

Speak with academic advisor or department chair

ENGINEERING**ENG 100. ENGINEERING GRAPHICS
CLASS HOURS: 2, CREDIT: 2****Prerequisite: None**

An introduction to engineering graphics, the primary media for developing and communicating engineering system design information. Preparation of technical drawings using drafting instruments and computer-aided design (CAD) software is based on ANSI standards and includes orthographic projections, dimensioning, and tolerances.

ET**ENG 110. INTRODUCTION TO ENGINEERING
AND TECHNOLOGY
CLASS HOURS: 1, CREDIT: 1****Prerequisite: None**

An introduction to the engineering and technology professions and curricula, including the professional responsibilities of engineers and engineering technologists, the organization of the engineering and technology profession, and library and internet research, with outside speakers from the profession.

ME**ENG 120. ENGINEERING COMMUNICATIONS ♦
CLASS HOURS: 2, CREDIT: 2****Prerequisite: None**

A focus on communication (oral, visual, graphical, and written) in the engineering profession by introducing students to technical writing, word processing, presentation software, and spreadsheets.

ME**ENG 185. STUDY ABROAD ELECTIVE****ET, ME**

ENG 210. ENGINEERING COMPUTER PROGRAMMING**CLASS HOURS: 2, CREDIT: 2****Prerequisite: None**

An introduction to the use and applications of MATLAB in engineering, and an introduction to computer programming using MATLAB. Main topics include array and matrix manipulation, plotting in 2 and 3 dimensions, solving linear systems of equations, and solving nonlinear equations. In addition, the basic programming constructs, including input and output formatting, functions, conditional statements, and loops are introduced. A basic introduction to linear algebra is also included.

ME**ENG 250. ELECTRICAL CIRCUITS AND ELECTRONICS ♦****CLASS HOURS: 3, CREDIT: 3****Prerequisite: PHY 205****Co-requisite: ENG 250L**

An overview of the theory and analysis of DC and AC circuits. Real and ideal sources, power transfer and power factor. Resistor, capacitor, and inductor circuits, transient response, frequency response and transfer functions. Single phase and multiphase power systems, and amplifier circuits and semiconductor devices.

ME**ENG 250L. ELECTRICAL CIRCUITS AND ELECTRONICS LAB ♦****LAB HOURS: 2, CREDIT: 1****Prerequisite: PHY 205****Co-requisite: ENG 250**

A hands-on analysis of circuits and electronics. Use of meters, scopes and breadboard techniques to construct and measure transient and steady-state responses. MATLAB simulations used in response prediction.

ME**ENG 300. ENGINEERING NUMERICAL ANALYSIS****CLASS HOURS: 4, CREDIT: 4****Prerequisite: ENG 210, MTH 215**

A review of mathematical solutions to engineering problems involving error analysis, systems of linear algebraic equations, analytical and numerical methods in solving ordinary differential equations using finite difference and finite element methods. Typical engineering problems in heat transfer, mechanical vibrations, and mechanics of materials will be solved using MS Excel and MATLAB software. A standard finite-element code will be used in the finite-element analysis portion of this course.

ME**ENG 385. STUDY ABROAD ELECTIVE****ET, ME****ENG 390. INDEPENDENT STUDY****ET, ME****ENG 395. SPECIAL TOPICS****ET, ME****ENG 430. NAVAL ARCHITECTURE ♦****CLASS HOURS: 3, CREDIT: 3****Prerequisite for ET Students: ET 332, ET 340****Prerequisite for ME Students: ME 332, ME 340**

An overview of ship nomenclature, initial and damaged stability theory and calculations, hull structural design considerations, ship resistance and propulsion power prediction.

ET

ENG 440. POWER ENGINEERING**CLASS HOURS: 3, CREDIT: 3****Prerequisite: ME 240 or ET 344**

A survey of the processes used to convert various energy resources—fossil fuel (coal, oil, natural gas) and nuclear fuel as well as renewable sources (hydroelectric, solar, wind, geothermal, biomass, ocean tidal and wave)—into useful electrical and mechanical energy. The focus will be on the engineering analysis, technology, and societal and environmental benefits and impacts of each process.

ME**ENG 440L. POWER ENGINEERING LAB****LAB HOURS: 1, CREDIT: 1****Prerequisite: ENG 440**

An experimental study of several of the electrical power generation systems studied in ENG 440. Students will operate several power generation systems in the Power Lab (including a gas turbine, combined cycle plant, wind turbine, and solar photovoltaic and thermal systems) under controlled loads, obtain measurements, and evaluate performance. Hybrid and battery charging systems will also be examined.

ME**ENG 470. ENGINEERING MANAGEMENT****CLASS HOURS: 3, CREDIT: 3****Prerequisite: ELEC 20, Junior class standing**

An introduction to the engineering profession and a focus on total quality management, personnel management and communications, project management and legal concerns. Topics such as professional liability and ethics will provide the student with a sense of his or her responsibility. In addition, numerous case studies enhance student understanding.

ET**ENG 472. FACILITIES MANAGEMENT****CLASS HOURS: 3, CREDIT: 3****Prerequisite: CEP 250 or CEP 270**

An introduction to the Facilities Engineering profession. Topics from various engineering and technology disciplines are covered and integrated into a structure consistent with the understanding and experiences needed in the Facilities Engineering management profession. In their senior year, students must take and pass a comprehensive examination administered by an independent agency as designated by the engineering technology faculty.

ET

ENGINEERING PLANT OPERATIONS

EPO 110. PLANT OPERATIONS I ♦ LAB HOURS: 3, CREDIT: 1

Prerequisite: None

A laboratory class in which the students are directly involved in the inspection, maintenance, and repair of marine machinery and systems aboard the *Training Ship GOLDEN BEAR*. Emphasis is placed on the safe and proper use of hand and power tools, and on the identification and repair of valves, pumps, fittings, piping, switches, controllers, and circuit breakers. Lab reports will be completed on work performed.

ET | Graded: Credit/No Credit

EPO 125. INTRODUCTION TO MARINE ENGINEERING CLASS HOURS: 3, CREDIT: 3

Prerequisite: None

Co-requisite: EPO 125L (MET & FET only), EPO 110

An introductory course in marine engineering that develops a basic understanding of common shipboard systems, their function, arrangement, major components, and principles of operation. Hands-on studies of the engineering systems aboard the *Training Ship GOLDEN BEAR* reinforce engineering system concepts discussed in class. Completion of shipboard practical training requirements familiarize the student with the watch routine and safety equipment in preparation for follow-on practical training at sea.

ET

EPO 125L. INTRODUCTION TO MARINE ENGINEERING LAB LAB HOURS: 2, CREDIT: 1

Prerequisite: None

Co-requisite: EPO 125, EPO 110

This lab studies primary engineering systems aboard the *Training Ship GOLDEN BEAR*. Topics of study include shipboard familiarization, measurement methods, main engine jacket water system, fuel oil storage (transfer and supply), fuel oil injection systems, lube oil system, gear train and clutch, cooling water systems, environmental protection systems, starting air system, distillation plant, and basic shipboard firefighting and safety. Students are given engineering system tracing assignments including main engine jacket water system, main engine fuel supply system, main engine lubricating oil system, central fresh water cooling system, and main engine starting air system.

ET

EPO 185. STUDY ABROAD ELECTIVE

ET

EPO 210. PLANT OPERATIONS II ♦ LAB HOURS: 3, CREDIT: 1

Prerequisite: EPO 110

A continuation of the practical work performed on the *Training Ship GOLDEN BEAR* or in the facilities maintenance lab. Equipment maintenance is emphasized with work on diesel engines, air compressors, generators, electrical equipment, and pumps. Lab reports will be completed on work performed.

ET | Graded: Credit/No Credit

EPO 213. WELDING LAB ♦ LAB HOURS: 3, CREDIT: 1

Prerequisite: None

A laboratory course that provides the experience in welding, brazing, cutting, and burning techniques sufficient to effect emergency repairs and routine maintenance of engineering structures and systems.

ET

EPO 214. BOILERS ♦**CLASS HOURS: 3, CREDIT: 3****Prerequisite: EPO 125**

A comprehensive study of fossil fuel steam generators, with emphasis on marine propulsion plants. Topics include the principles of boiler design and construction, boiler auxiliaries, principles of combustion, heat recovery equipment, automated boiler controls, and boiler water treatment. In addition, the course prepares students for the steam plant section of the US Coast Guard Third Assistant Engineer's exam.

ET**EPO 215. MANUFACTURING PROCESSES I ♦****LAB HOURS: 3, CREDIT: 1****Prerequisite: None**

An introduction to machine shop practices utilizing engine lathes and milling machines, precision measuring instruments and hand tools. Assigned projects include execution of designs developed by students in prior graphics design courses.

ET**EPO 217. SHIPBOARD MEDICAL ♦****LAB HOURS: 2, CREDIT: 1****Prerequisite: Senior Class Standing**

An exposure to the practical applications of the principles of first aid and medical care. Topics include body structure and function, resuscitation techniques, and bleeding control, management of shock states, burns and scalds, cold and heat effects, rescue and casualty transport, toxicological hazards, spinal injuries, fractures, dislocation and muscular injuries, radioed medical advice, pharmacology, sterilization, cardiac arrest and drowning.

ET**EPO 220. DIESEL ENGINEERING I****CLASS HOURS: 2, CREDIT: 2****Prerequisite: None**

An introduction to the internal combustion engine utilized in vessels operated by industry and the merchant marine. Topics include basic theory, history of the diesel engine, gas exchange process, engine types, engine construction, engine parts, fuel injection, and merchant vessel propulsion. All diesel engine types are covered but emphasis is given to the crosshead type slow-speed diesel engine which is the dominant form of main propulsion for the world's merchant fleet. The course prepares students for the motor section of the USCG Third Assistant Engineer's examination.

ET**EPO 230. STEAM PLANT SYSTEM OPERATIONS ♦****LAB HOURS: 2, CREDIT: 1****Prerequisite: CRU 150, EPO 125**

A hands-on learning experience in the Steam Plant Simulator. An introduction to the engineering systems, operating and emergency procedures, and watch requirements of a steam propulsion plant.

ET**EPO 235. STEAM PLANT WATCH TEAM MANAGEMENT ♦****LAB HOURS: 2, CREDIT: 1****Prerequisite: EPO 214, EPO 230**

A hands-on learning experience in the Steam Plant Simulator. Develops fault analysis techniques for steam propulsion plants, communication skills in a work environment, and management abilities.

ET

EPO 310. PLANT OPERATIONS III ♦**LAB HOURS: 3, CREDIT: 1****Prerequisite: EPO 210**

A continuation of the practical work performed on the training ship or in facilities maintenance lab. Supervision of equipment maintenance is emphasized. The students rotate in working on main propulsion, electrical and auxiliary equipment. Lab reports will be completed on work performed.

ET**EPO 312. TURBINES ♦****CLASS HOURS: 3, CREDIT: 3****Prerequisite: EPO 214**

A comprehensive study of steam turbines, condensers, reduction gears, propulsion shafting, and gas turbines, with an emphasis on marine propulsion plants. Steam and gas turbine controls and the thermodynamic principles of efficient steam plant operation are also included. Students will gain the knowledge needed to operate and maintain turbines and their auxiliary systems. In addition, the course prepares students for the steam plant section of the US Coast Guard Third Assistant Engineer's exam.

ET**EPO 315. MANUFACTURING PROCESSES II****LAB HOURS: 3, CREDIT: 1****Prerequisite: EPO 215**

A continuation of EPO 215 Manufacturing Processes I, emphasizing work on metal lathes and vertical milling machines.

ET**EPO 319. FACILITIES ENGINEERING
DIAGNOSTICS LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite: CRU 150**

An examination of the theory and application of vibration analysis, oil analysis, machinery alignment, thermography, and overall plant performance analysis to the maintenance of machinery. Includes the study of various machinery maintenance programs applied to facilities engineering systems, including machinery history, trend analysis, and predictive maintenance.

ET**EPO 321. INTRODUCTION TO POWER
GENERATION PLANTS ♦****LAB HOURS: 2, CREDIT: 1****Prerequisite: EPO 220**

An introduction to the operation, performance and maintenance of simple cycle gas turbine and medium-speed reciprocating power generation systems, combined cycle gas turbine and steam turbine power plants. This course will expose the student to gas and liquid fired reciprocating engines, simple cycle gas turbine as well as combined cycle plants. The emphasis of this course is power plant management to train the students in common power plant systems and how they interact with each other.

ET

**EPO 322. DIESEL ENGINEERING II/
SIMULATOR**

CLASS HOURS: 1, CREDIT: 1

Prerequisite: EPO 220

Co-requisite: EPO 322L

A study of engineering systems and components associated with diesel power plants. Topics include exhaust treatment equipment and advanced engine technologies applied to the reduction of harmful emissions, with training in diesel engine systems, normal operations and maintenance, and casualty procedures.
ET

**EPO 322L. DIESEL ENGINEERING II/
SIMULATOR LAB ♦**

LAB HOURS: 2, CREDIT: 1

Prerequisite: EPO 220

Co-requisite: EPO 322

A lab in the diesel plant simulator where the student will learn to operate a heavy-fuel diesel-propulsion plant under normal and emergency operating conditions. Students will learn to work effectively as a team to diagnose combustion and machinery faults representative of those that are encountered in operating diesel power plants. This course will emphasize engine team management techniques utilizing the simulator as an instructional tool to train the students in good communications and problem solving even during stressful conditions.
ET

EPO 324. REFRIGERATION & A/C FOR QMED ♦
CLASS HOURS: 3, CREDIT: 3

Prerequisite: None

An introduction to basic refrigeration and air conditioning principles and equipment. Topics include the theory and application of direct and indirect refrigeration cycles commonly found on merchant ships and ashore, including main cargo freezers, air conditioning systems, chill water systems, refrigerated vans, and ice machines. Single-phase electrical motor and motor starter theory. .
ET

EPO 325. QMED FUNDAMENTALS ♦
CLASS HOURS: 3, CREDIT: 3

Prerequisite: EPO 125, EPO 220, NAU 310, NAU 310L

An overview of the fundamental principles of electrical distribution systems, electric power generation, electric drive motors, electric motor control, auxiliary boilers, and auxiliary steam systems. The course is intended as a preparatory course for students taking the USCG unlicensed examination for QMED Diesel Engineer.
ET

EPO 385. STUDY ABROAD ELECTIVE

ET

EPO 390. INDEPENDENT STUDY

ET

EPO 395. SPECIAL TOPICS

ET

**EPO 413. ADVANCED WELDING AND
FABRICATION**

LAB HOURS: 3, CREDIT: 1

Prerequisite: EPO 213, EPO 215

A practical course in taking a fabrication project through to completion. Scheduling, drawings, materials lists, various fabricating techniques, and teamwork are all part of the assigned project.
ET

ENGINEERING TECHNOLOGY

ET 110. INTRODUCTION TO ENGINEERING TECHNOLOGY

CLASS HOURS: 1, CREDIT: 1

Prerequisite: None

A survey course introducing the engineering technology profession and curriculum. Topics in engineering education, academic success strategies, and career opportunities are covered. Also, the basic concepts of engineering analysis are introduced through the use of engineering units and significant figures in calculations. Field trips are utilized to give the students exposure to their chosen profession.

ET

ET 185. STUDY ABROAD ELECTIVE

ET

ET 230. PROPERTIES OF MATERIALS

CLASS HOURS: 2, CREDIT: 2

Prerequisite: CHE 100, CHE 100L, MTH 210

An examination of the properties of materials from the atomic to the macroscopic levels, looking at crystal structures and the application of materials to engineering systems. Emphasis is on metals, but nonmetals are discussed. Mechanical properties, creep, fatigue, corrosion and failure characteristics are covered. Current usage of advanced materials is also discussed.

ET

ET 230L. PROPERTIES OF MATERIALS LAB

LAB HOURS: 2, CREDIT: 1

Prerequisite: CHE 100, CHE 100L, ET 230, MTH 210

An examination of the physical characteristics of materials through testing, data acquisition, and calculations. Tests conducted include tensile, fatigue, creep, impact energy, and hardenability. Students learn how the properties described in ET 230 are derived.

ET

ET 232. STATICS

CLASS HOURS: 3, CREDIT: 3

Prerequisite: MTH 210, PHY 200, PHY 200L

A study of force systems and the conditions of equilibrium for particles and rigid-bodies in two and three dimensions. The principles of equilibrium, moments, and dry friction are applied to engineering system components and structures.

ET

ET 250. ELECTRICAL CIRCUITS

CLASS HOURS: 3, CREDIT: 3

Prerequisite: MTH 211, PHY 205

Co-requisite: ET 250L

A study of the principles and applications of DC and AC circuit analysis, node and mesh equations, Thevenin equivalent circuits, maximum power transfer, first order transients, simple filters and amplifiers, phasors, power, power factor, and reactive power in single-phase systems.

ET

ET 250L. ELECTRICAL CIRCUITS LAB ♦

LAB HOURS: 2, CREDIT: 1

Prerequisite: MTH 211, PHY 205

Co-requisite: ET 250

Application of circuit elements and principles from ET 250 in laboratory measurements and analysis.

ET

ET 330. DYNAMICS

CLASS HOURS: 3, CREDIT: 3

Prerequisite: ET 232

A study of force systems and motion of particles and rigid-bodies in two and three dimensions. The principles of dependent and relative motion, work and energy, conservation of energy, and impulse and momentum are applied to engineering system components.

ET

ET 332. STRENGTH OF MATERIALS**CLASS HOURS: 3, CREDIT: 3****Prerequisite:** MTH 211, ET 232**Co-requisite:** ET 230L

A study of the basic concepts in strength of materials under normal conditions compared to shear, bending, and bearing stress. The study includes stress-strain relationship, the design properties of materials, and the practical application of structure calculations for sizing bolts, rivets, shafts, beams, columns, and pressure vessels.

ET**ET 340. FLUID MECHANICS****CLASS HOURS: 3, CREDIT: 3****Prerequisite:** MTH 211, PHY 205**Co-requisite:** ET 340L

A study of the application of principles of incompressible fluid flow. Topics include forces in static fluids and fluids in motion, applications of Bernoulli's equation, pressure losses in pipe systems, open channel flows, pump selection, and air flow in ducts.

ET**ET 340L. FLUID MECHANICS LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite:** MTH 211, PHY 205**Co-requisite:** ET 340**ET****ET 342. REFRIGERATION AND AIR
CONDITIONING ♦****CLASS HOURS: 2, CREDIT: 2****Prerequisite:** ET 344**Co-requisite:** ET 342L

An introduction to basic refrigeration and air conditioning principles and equipment. Topics include the theory and application of direct and indirect refrigeration cycles in units commonly found on merchant ships and on shore including main cargo freezers, air conditional systems, chill water systems, absorption systems, refrigerated vans, and ice machines.

ET**ET 342L. REFRIGERATION AND AIR
CONDITIONING LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite:** ET 344**Co-requisite:** ET 342**ET****ET 344. THERMODYNAMICS****CLASS HOURS: 3, CREDIT: 3****Prerequisite:** PHY 200, PHY 200L

A study of the basic laws of thermodynamics and their applications to heat-power machinery used on shipboard heat-power plants, steam and gas turbines, internal combustion engines, and vapor-compression refrigeration systems.

ET**ET 350. ELECTRICAL MACHINERY****CLASS HOURS: 3, CREDIT: 3****Prerequisite:** ET 250, ET 250L**Co-requisite:** ET 350L

A study of the principles and application of magnetic circuits and transformers, three-phase power, power factor correction, DC motors and generators, three-phase AC motors and alternators, single-phase motors, stepper motors, electronic motor control, and circuit protection devices.

ET**ET 350L. ELECTRICAL MACHINERY LAB ♦****LAB HOURS: 2, CREDIT: 1****Prerequisite:** ET 250, ET 250L**Co-requisite:** ET 350

An application of the principles from ET 350 in laboratory measurements and analysis.

ET

ET 370. ELECTRONICS ♦**CLASS HOURS: 3, CREDIT: 3****Prerequisite:** COM 220, COM 220L, ET 250, ET 250L**Co-requisite:** ET 370L

Principles and application of electronic circuits and components, microcontrollers, operational amplifiers, comparators, peak detectors, active filters, timer circuits, AD conversion, serial communication, and micro electro-mechanical systems.

ET**ET 370L. ELECTRONICS LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite:** COM 220, COM 220L, ET 250, ET 250L**Co-requisite:** ET 370

An application of the principles from ET 370 in laboratory measurements and analysis, followed by a comprehensive team project.

ET**ET 385. STUDY ABROAD ELECTIVE****ET****ET 390. INDEPENDENT STUDY****ET****ET 395. SPECIAL TOPICS****ET****ET 400. INSTRUMENTATION AND MEASUREMENT****CLASS HOURS: 3, CREDIT: 3****Prerequisite:** ET 370, ET 370L**Co-requisite:** ET 400L

A study of instrumentation devices and their uses in monitoring processes, including instrumentation used for measuring temperature, pressure, level, flow, position, motion, and other types of analytical measurement. In addition to instrumentation, the principles of signal conditioning are also studied including op-amp applications, filtering, applications to pneumatic systems, and digital signal conditioning. Students learn how instrumentation relates to modern data acquisition systems, how to optimize measurements and to effectively analyze measured signals.

ET**ET 400L. INSTRUMENTATION AND MEASUREMENT LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite:** ET 370, ET 370L**Co-requisite:** ET 400

A practical study of the principles introduced in ET 400. Topics include signal conditioning, Wheatstone bridge applications, use of operational amplifiers for signal conditioning, Boolean logic, thermal transducers, strain gage measurements, variable capacitance transducers, and optical transducers. Computer-based data acquisition methods are used in all the procedures.

ET

ET 442. HEATING, VENTILATION, AND AIR CONDITIONING**CLASS HOURS: 2, CREDIT: 2****Prerequisite:** ET 342, ET 342L**Co-requisite:** ET 442L

The second of a two-course sequence studying applied thermodynamics with regards to refrigeration/air conditioning cycles. This course will focus on the HVAC requirements of facilities, with specific application to ships. The design of HVAC systems, including heat balance, duct design and fan selection will be used to examine new system requirements and to examine potential modification to existing systems. The course will prepare the student for the Certified Plant Engineer-In Training (CPE-IT), Fundamentals of Engineering (FE), and US Coast Guard exams.

ET**ET 442L. HEATING, VENTILATION, AND AIR CONDITIONING LAB****LAB HOURS: 2: CREDIT: 1****Prerequisite:** ET 342, ET 342L**Co-requisite:** ET 442**ET****ET 460. AUTOMATION ♦****CLASS HOURS: 3, CREDIT: 3****Prerequisite:** ET 400, ET 400L**Co-requisite:** ET 460L

A study of automation in power plants, engineering processes, and manufacturing processes leading to an understanding of modern control systems. Principles of analog and digital control systems are studied, as well as measurement methods and final control valves and actuators. PID (proportional plus integral plus derivative) control applications and programmable logic controllers are also studied. Modeling, measurement, and control of mechanical, thermal, fluid, and electrical systems are investigated.

ET**ET 460L. AUTOMATION LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite:** ET 400, ET 400L**Co-requisite:** ET 460

A practical study of the principles introduced in ET 460. Topics include introduction to the concepts of closed loop control, PLC (programmable logic controllers) programming, pneumatic logic and control applications, a study of frequency response in systems (Bode plots), and process loop tuning methods.

ET**ET 490. POWER ENGINEERING TECHNOLOGY****CLASS HOURS: 3, CREDIT: 3****Prerequisite:** ET 344, ET 350, ET 350L**Co-requisite:** ET 490L

A capstone course in engineering technology in which students apply the engineering fundamentals of previous thermodynamics and electrical machinery coursework to studies of combustion processes, combustion byproducts, emission abatement, and electrical distribution and transmissions systems commonly found in modern marine propulsion plants and the power industry. In addition, through guest lecturer presentations and/or field trips, students will become familiar with renewable energy resources. As a research project, students will conduct an energy audit of a virtual facility and develop an engineering model for application of "green" technologies to improve energy efficiency and reduce the carbon footprint.

ET**ET 490L. POWER ENGINEERING TECHNOLOGY LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite:** ET 344, ET 350, ET 350L**Co-requisite:** ET 490

A practical course in the power laboratory to perform thermodynamic analyses of operating power generation equipment.

ET

ENGLISH AND COMMUNICATIONS

EGL 001. INTRODUCTION TO COMPOSITION CLASS HOURS: 3, CREDIT: 3

Prerequisite: None

An introduction to the basics of expository writing. The course stresses grammar, punctuation, paragraph organization and development to help students write effective college-level English. Entering students are required to take a placement exam, regardless of what previous college English courses they have had, to determine whether this course is appropriate for them.

XL | Graded: A, B, C, NC

EGL 100. ENGLISH COMPOSITION CLASS HOURS: 3, CREDIT: 3

Prerequisite: EGL 001 or EGL 105, or passing score on EPT, or otherwise exempt from remediation.

A study of the theory and practice of expository writing, with particular emphasis on argumentation and persuasion. The course focuses on competence in reading, thinking, and writing through the analysis and composition of expository prose. Also included is a research paper component introducing students to concepts of information fluency, logical fallacies, rhetorical strategies, and other research methods and practices. This course may not be challenged by examination.

CC

EGL 105. ENGLISH AS A SECOND LANGUAGE CLASS HOURS: 3, CREDIT: 3

Prerequisite: None

An intermediate course that is required for all international students. The course is an alternative to the English course requirements for U.S. students. This course may substitute for EGL 001 for students whose primary language is not English.

XL | Graded: A, B, C, NC

EGL 110. SPEECH COMMUNICATION (CSL) CLASS HOURS: 3, CREDIT: 3 COMMUNITY SERVICE HOURS: 10

Prerequisite: None

A study of the basic principles of oral communication and public speaking. The course is designed to help students in occupational and social situations by improving self-expression, self-confidence, and self-understanding, while paying attention to the basic elements of organization and delivery. This class has a community-service learning component in which students join the CMA Toastmasters Club in order to refine their speaking skills and learn the roles and formal duties of club officers.

CC

EGL 185. STUDY ABROAD ELECTIVE

CC

EGL 200. INTRODUCTION TO LITERATURE CLASS HOURS: 3, CREDIT: 3

Prerequisite: None

A critical evaluation of literary techniques, elements, and theories. Students read and discuss an appropriate selection of poetry, fiction, and drama. Required oral and written assignments support students in the formulation and expression of logical thinking through argument and analysis.

CC

EGL 220. CRITICAL THINKING CLASS HOURS: 3, CREDIT: 3

Prerequisite: EGL 100

An introduction to the use of critical thinking skills with emphasis on examining those structures or elements of thought implicit in all argumentation: deductive and inductive reasoning; logical fallacies; implications, assumptions, and consequences; denotative and connotative elements in language; and rhetorical modes and methods.

CC

EGL 300. ADVANCED WRITING**CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 100, Junior Class Standing**

A writing proficiency course for students who do not pass the Graduate Writing Examination (GWE). Students must master four basic essay types and achieve a good grasp of mechanics, coherence, completeness and unity of thought in their writing. They are also taught to plan, organize, and proofread their writing, as well as arrange information in ways conducive to the promotion of good communication. By the end of the course, they are expected to have a thorough grasp of the grammatical, lexical and syntactical aspects of English and to write in a manner consistent with college graduation requirements, focusing on clarity, insightfulness and development of concepts.

CC**EGL 305. TWENTIETH-CENTURY AMERICAN LITERATURE****CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 220**

Representative readings in American literature of the 20th century with emphasis on those writers who have had the most significant influence on American literary thought and value, particularly those representing cultural diversity in America. This course meets a humanities elective requirement.

CC**EGL 310. U.S. LITERATURE OF THE SEA****CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 100**

A survey of those plays, poems and fiction produced in the United States which are shaped by, or specifically represent, the varied relationships of Americans to the seas. The objective of this course is to explore, analyze, and interrogate the way 'the sea' has been represented by American writers in a variety of cultural texts. While the course is shaped around several themes—the sea as a site of exploration, romance, and adventure, the sea as a symbol of primal terror, and the sea as a space of commerce and recreation—special attention will be paid to how U.S. maritime literature constructs a national identity and advances or critiques the nation-building enterprise.

CC**EGL 315. WORLD LITERATURE OF THE SEA****CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 100**

A survey of non-U.S. plays, poems and fiction which are thematically categorized by their maritime focus. The objective of this course is to explore, analyze, and interrogate the way 'the sea' has been represented by international writers in a variety of cultural texts, with particular attention paid to the European and Caribbean traditions. While the course is shaped around several themes—the sea as a site of exploration, romance, and adventure, the sea as a symbol of primal terror, and the sea as a space of commerce and recreation—special attention will be given to issues of the sea as an impediment to, or a facilitator of, the colonialist enterprise.

CC

**EGL 320. LITERATURE OF THE FANTASTIC
CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 220**

A reading and analysis of quality supernatural fiction that defines literature of the fantastic in terms that the average student may comprehend and thus relate to, within the larger context of a true literary genre. The authors studied come from a wide range of ancient and modern writers (both Eastern and Western) whose works represent the patterns and uses of the supernatural as it functions in society. Several important issues raised by contemporary critical theory are also examined, such as reader-response, the relation between comedy and the fantastic as well as that between literature and madness, and the link between aesthetic experience and social context.

CC**EGL 325. CREATIVE WRITING
CLASS HOURS: 1-3, CREDIT: 1-3****Prerequisite: EGL 100**

An introduction to creative writing, with an emphasis on aesthetics and self-expression rather than on publication. Mini lectures define the elements of successful fiction and poetry, focused exercises provide practice in these elements, published models are examined for technique and structure. Credit varies depending on the amount of work accomplished by the student and the number of classes attended. This course meets a humanities elective requirement, depending on the units completed.

CC**EGL 330. LITERATURE AND PSYCHOLOGY
CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 220**

An analysis of how various psychological principles and theories may be applied to literary selections. Topics include: Jungian archetypes, especially the shadow; the Freudian Oedipus complex; issues of human growth from childhood through adolescence and adulthood, including abuse; dysfunctional families; dreams and fantasies; the psychology of men and women, lust and love, death and dying. A research paper requires the student to apply psychological principles to a play or novel. CC

CC**EGL 385. STUDY ABROAD ELECTIVE****CC****EGL 390. INDEPENDENT STUDY****CC****EGL 395. SPECIAL TOPICS****CC**

FIREFIGHTING**FF 185. STUDY ABROAD ELECTIVE****XL****FF 200. BASIC/ADVANCED MARINE
FIREFIGHTING ♦
CREDIT: 0**

This course is a requirement for all students enrolled in a USCG license program, although it is administered by Extended Learning.

XL | Graded: Credit/No Credit**FF 385. STUDY ABROAD ELECTIVE****XL****FF 390. INDEPENDENT STUDY****XL****FF 395. SPECIAL TOPICS****XL****GLOBAL STUDIES AND
MARITIME AFFAIRS****GMA 100. INTRODUCTION TO
INTERNATIONAL RELATIONS
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

An introduction to the principal concepts, theories, and issues in international relations. While frequent use will be made of current and historical events in the lectures and readings, the main focus of the course is to provide students with the tools and analytical framework with which to analyze the rapidly changing international arena. The class is divided into four parts.

Part I will address traditional approaches to the study of international relations, focusing on the system, state, and individual levels of analysis.

Part II will present an overview of economic globalization, and the impact this has had on issues such as the political and security behavior of states, the future of the state as an economic entity, and the distribution of wealth between North and South.

Part III will address traditional security concerns of states, from both the 'realist' and 'idealist' perspectives, as well as from an ethical point of view. Part IV will focus on global environmental concerns, including global warming, ocean and fisheries degradation, and fresh water access. Throughout, we will view economic, security and environmental concerns in an interdependent context.

MPM

**GMA 102. WORLD REGIONAL GEOGRAPHY
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

A systematic study of the Middle East, Africa, Russia, Europe, South and East Asia, The Americas, and Oceania, including natural environments, population demographics, migration, political geography, religion, language, ethnicity, urban/rural patterns, and economic livelihoods. Regions are studied both alone and in the context of their global interactions, with a special focus on sea, straits, ports, and maritime affairs.

MPM**GMA 105. OCEAN POLITICS
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

An overview that addresses the economic, security, and environmental aspects of the world's oceans within the framework of the International Relations discipline. It will focus on the international dimensions of a global resource, whose components are increasingly becoming scarce, and on the means—both cooperative and conflictual—by which these resources have been, and are likely to be, managed. The course is divided into three parts: I-Oceans and Economic Resources; II-Oceans and Conflict; and III-Oceans and the Environment. Parts II and III, which highlight non-violent means for resolving economic, security, and environmental disputes, will include international, regional, and non-governmental mechanisms of conflict management. This approach will include the Law of the Sea Convention, the International Maritime Organization, and regional bi- and multi-lateral agreements.

MPM**GMA 120. INTRODUCTION TO
ENVIRONMENTAL POLICY
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

An introduction to environmental politics and policy that examines the process through which environmental policy is generated in both the domestic and international spheres, and analyzes policy implications. Current issues in U.S. and international environmental policy are central to the course, and special attention is paid to environmental politics and policy in the maritime field.

MPM**GMA 185. STUDY ABROAD ELECTIVE****MPM****GMA 215. INTRODUCTION TO
COMPARATIVE POLITICS
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

An introduction to important themes of comparative political analysis, in order to identify and explain differences in political systems and political life across different states and regions of the world. The course focuses on the development of the fundamental elements of modern political systems including state, nation, market, civil society, democracy, and authoritarianism. Close attention is paid to interactions between these elements, for example, between states and markets, or between civil society and authoritarian regimes. The course also focuses on the role of institutions, such as political parties and constitutional structures, in shaping these interactions.

MPM

**GMA 220. COMPARATIVE
MARITIME POLICIES
CLASS HOURS: 3, CREDIT: 3****Prerequisite: GMA 105, GMA 215**

An overview of the central concepts and approaches of comparative maritime policy placed in a broader world setting by presenting many of the organizing concepts, findings and theories that define the discipline. In addition to learning the specifics about the conduct of maritime politics in a variety of different countries, students will learn the basic concepts, theories and general patterns that explain maritime political behavior and political outcomes both within and across the broad system types. We will emphasize many current maritime issues, events, and problems in our world today and try to gain some theoretical perspective on them.

MPM**GMA 225. SOUTHEAST ASIA:
MARITIME AND MAINLAND
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

An introduction to Asia-Pacific's historical background, traditional culture, contemporary society, domestic politics, political economy and foreign policy. The course combines multi-disciplinary approaches to the study of Asia, drawing on the insights of the historian, anthropologist, sociologist, economist, and the political scientist. The course is segmented into three parts. The first part takes a systemic overview of the Asia-Pacific region emphasizing its history, tradition, culture and society, and political and economic development. The second part examines specific countries, emphasizing various aspects of domestic and foreign politics and policy process. The third part focuses on the trends and transformations that are currently sweeping Asia-Pacific and the implications around world.

MPM**GMA 230. U.S. MARITIME POLICY
CLASS HOURS: 3, CREDIT: 3****Prerequisite: GMA 105**

An introduction to US maritime policy. This course examines the process through which US maritime policy is formulated, and analyzes its domestic and international implications. Current issues facing the US maritime community are central to the course, and special attention is paid to port issues and security policies. The course is structured by two fundamental components: the historic evolution of US maritime policy, and the analysis of contemporary policy. Students are encouraged to think critically about US maritime policy, both past and present, and offer new ideas that create an encouraging future.

MPM**GMA 300. U.S. FOREIGN POLICY
CLASS HOURS: 3, CREDIT: 3****Prerequisite: GMA 100, GOV 200**

This course examines the manner in which US foreign policy is made and analyzes the implications of this policy-making process, with an emphasis on current issues in maritime policies including an understanding of how international, domestic, and individual constraints affect the policy process and outcomes. Students learn to think creatively about the choices available to political leaders and why, in the face of alternatives, a particular course of action or policy tends to be selected.

MPM**GMA 310. THE GEOPOLITICS OF ENERGY
CLASS HOURS: 3, CREDIT: 3****Prerequisite: GMA 100**

This course covers the history of oil exploration, the policies that have informed national and international attention to energy acquisition, and the geopolitics that have accompanied the development of the world's oil industry. Oil has been the most important natural resource of the twentieth century. Its price and availability determine the macroeconomic health and stability of economies; access to it determines the foreign policies of many nations; and nations have been willing to go to war to secure its guaranteed access.

MPM

GMA 315. CHINA AND ITS NEIGHBORS**CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

This course focuses primarily on China's historical and contemporary geopolitical relationships with Japan, the Korean Peninsula, and the Russian Far East. These regions and states are also examined in their own light to better understand regional commonalities and contrasts which provide the foundation and context for understanding current issues in the East Asia region including ancient roots and cultural traditions, revolution and reform, natural environments and hazards, urban and rural patterns, geographical pivots, powerful transformations, and ongoing territorial disputes.

MPM**GMA 320. OCEAN ENVIRONMENTAL MANAGEMENT****CLASS HOURS: 3, CREDIT: 3****Prerequisite: GMA 105**

An examination of environmental issues such as maritime pollution, ocean oil, gas, and natural resource exploration, global warming, habitat conservation, and species conservation, and an analysis of the various solutions proposed to deal with them. Designed for students with little or no scientific background, the course provides basic science education integrated with major international environmental concerns, ecological principles, population, food, pesticides, forests, bio-diversity, water, atmosphere, ozone, global warming, energy, waste management, and sustainable development. The growth of the world's population, combined with economic development and industrialization, places extreme stress on all natural resources, ocean resources included.

MPM**GMA 330. MARITIME SECURITY****CLASS HOURS: 3, CREDIT: 3****Prerequisite: GMA 100 or GMA 105****Recommended: GMA 300, GMA 305, HIS 300**

A study of the emerging threats to global maritime trade, specifically those to the world's sea lanes of communication and chokepoints. These threats include increased demand leading to larger numbers of collisions, state threats that may lead to armed conflict, and non-state threats such as maritime piracy and terrorism. In resolving these issues, the roles of the ISPS, MTSA, bilateral agreements, international organizations and international law are explored.

MPM | Formerly GMA 430**GMA 345. ASIAN SECURITY****CLASS HOURS: 3, CREDIT: 3****Prerequisite: Recommended GMA 100 or GMA 105**

A survey of contemporary Asian regional and national security designed primarily for GSMA majors and minors with a strong interest in international politics. Students examine the dangerous disputes in the region, the elements of regional security, actions that should be treated as threats to security, and the forms of cooperation that best safeguard security. Though military and strategic concerns are addressed, the course puts great emphasis on the generally neglected areas of human, environmental and resource security, and issues of sustainable development and social justice.

MPM

GMA 350. POLITICAL GEOGRAPHY**CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

A study of the geographical influences on political actions and their consequences, particularly boundary-making, boundary disputes, and geopolitical power. Location, distance, the distribution of natural and human resources have significant influences on geo-politics, both within and between regions and states. Concepts of territoriality include airborne, space-based, and waterborne possession and acquisition. Focus topics also include popular geopolitical narratives, place-based identity, environmental politics, and political ecology.

MPM**GMA 360. GLOBALIZATION****CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

An overview of theories and issues in contemporary international political economy. We examine how the global economic system bears on the power of the state, along with the strategies that states develop to deal with an international economy increasingly beyond their control. We study the development of the international economic system since the Great Depression, and the theories claiming to account for this development. Current issues and challenges dealing with the process of globalization are studied including global economic integration, new patterns of economic interaction, the region state, the virtual state, the world city, and the globalization and computerization of financial markets. Regional issues in the context of globalization are examined, specifically, the challenges that Russia, China, European, and third-world nations present to the existing global order. We examine environmental degradation in the context of globalization, and discuss the future of capitalism.

MPM**GMA 385. STUDY ABROAD ELECTIVE****MPM****GMA 386. PANETTA INSTITUTE ELECTIVE****MPM****GMA 390. INDEPENDENT STUDY****MPM****GMA 395. SPECIAL TOPICS****MPM****GMA 400. SENIOR SEMINAR I:
METHODS AND DESIGN****CLASS HOURS: 3, CREDIT: 3****Prerequisite: CEP 330, Senior Class Standing****Co-requisite: GMA 400L**

This course is the first of a two-semester sequence that provides an opportunity for senior GSMA majors to integrate their basic understanding of the field with the curricular emphases of the major. Students will explore the interrelationship between the substantive sub-fields, basic concepts, and the major modes of analysis in practice today. Students will focus on research methods and thesis design. Students will formulate a research question, discuss why the question is important, explain how the question can be answered, research and present a bibliography, and select the most appropriate methodology. Directed reading, research, and writing culminates in the preparation of a capstone senior thesis under direction of faculty adviser.

MPM**GMA 400L. SENIOR SEMINAR
RESEARCH LAB****CLASS HOURS: 1, CREDIT: 1****Prerequisite: None****Co-requisite: GMA 400**

This course provides hands-on instruction and practice in research methods for Global Studies, in support of completion of the GSMA Senior Thesis of GMA 400.

MPM

**GMA 401. SENIOR SEMINAR II:
RESEARCH PROJECT
CLASS HOURS: 3, CREDIT: 3**

Prerequisite: GMA 400

The second of a two-semester sequence, this course focuses on the writing of the senior thesis, based on the research design completed in GMA 400. Students will be held to writing deadlines, will be expected to turn in written outlines and drafts of their thesis, and will make class presentations of their work at defined intervals.

MPM

**GMA 405. INTERNATIONAL MARITIME
ORGANIZATIONS
CLASS HOURS: 3, CREDIT: 3**

Prerequisite: GMA 100

An advanced course in international maritime organizations, this course analyses the development of international institutions and studies how they function, concentrating on maritime institutions in particular. Because of the importance of trade to economic growth and development, governments have an interest in coordinating and normalizing international maritime policy. The evolution of maritime governance has led to number of international regimes and organizations. The intergovernmental cooperation that produces these regimes allows for a more efficient international maritime environment and shipping industry. The course focuses on the mechanisms through which international regimes influence the behavior of states and of the maritime industry. Special attention is paid to the International Maritime Organization (IMO), The United Nations Convention on the Law of the Sea (UNCLOS), and the impact of regimes on the US maritime industry.

MPM

**GMA 450. SPECIAL TOPICS IN
MARITIME POLICY
CLASS HOURS: 3, CREDIT: 3**

Prerequisite: Upper-Class Standing

This course provides a forum for the study of a single issue in maritime policy, one for which there may be neither the demand nor the resources to justify a regular course. Topics may include (but are not limited to) the following: marine invasive species, maritime labor issues, fisheries management, port security, and other timely topics in maritime affairs as they arise. Students may repeat the class for credit as the topic changes.

MPM

GOVERNMENT**GOV 185. STUDY ABROAD ELECTIVE****MPM****GOV 200. AMERICAN GOVERNMENT****CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

This course analyzes the premise of American political institutions and behavior from World War II on, through the application of socio-political concepts to specific cases. Students develop a better understanding of the nature and function of contemporary state and federal political forces shaping principles and policies behind our lifestyle. (Fulfills the state graduation requirements for US Constitutions, California State and local government, and Cal Maritime's government elective.)

MPM**GOV 385. STUDY ABROAD ELECTIVE****MPM****GOV 390. INDEPENDENT STUDY****MPM****GOV 395. SPECIAL TOPICS****MPM****HISTORY****HIS 100. U.S. HISTORY (TO 1877)****CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

An introduction to the principal developments in American political, economic, religious, and social life from pre-Columbian times through the era of Reconstruction. Key themes include: indigenous civilizations, the colonization of the New World, the move towards independence, the Constitution and federalism, the development of slavery, the Civil War, and the Era of Reconstruction. (Fulfills the state graduation requirements for US Constitutions, California state and local government, and Cal Maritime's history elective.)

MPM**HIS 101. U.S. HISTORY (FROM 1877)****CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

An introduction to the principal developments in American political, economic, religious, and social life from the close of Reconstruction to the present. Key themes include: the settlement and development of the American West, the rise of big business, race relations, the rise of America to global prominence, the Great Depression and New Deal, the rise of the welfare state, and America's military heritage. (Fulfills the state graduation requirements for US Constitutions, California state and local government, and Cal Maritime's history elective.)

MPM**HIS 185. STUDY ABROAD ELECTIVE****MPM**

HIS 210. HISTORY OF LATIN AMERICA**CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

A survey of the political, social, economic, and cultural development of Latin America from pre-Columbian times to the present. Major emphases will be on indigenous civilizations, globalization, and the region's ambiguous relationship with the United States. This course will provide an appreciation of the multi-cultural heritage of the region, and emphasize the historical roots of modern Latin America.

MPM**HIS 300. MARITIME HISTORY OF THE U.S. (CSL)****CLASS HOURS: 3, CREDIT: 3****COMMUNITY SERVICE HOURS: 10****Prerequisite: HIS 100 or HIS 101**

An historical examination of the development of the maritime industry in the US, this course addresses the importance of technology in the history of the US maritime industry and the human dimensions of maritime history. The course also includes a mandatory community service learning component which engages students in projects ranging from the archiving of museum material to the restoration of historical artefacts. (Does NOT fulfill the state graduation requirements for US Constitution and California state and local government or Cal Maritime's history elective.)

MPM**HIS 305. THE WORLD SINCE 1500: A GLOBAL HISTORY****CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 100, HIS 100 or HIS 101**

A survey of the essential characteristics and experiences of the major world regions, with an analysis of those forces or movements that have had a worldwide impact. Students review the development of politics, society, and culture of the world's major regions and understand the contributions of the major ethnic groups and cultures to world history. (Does NOT fulfill the state graduation requirements for US Constitution and California state and local governments, or Cal Maritime's history elective.)

MPM**HIS 315. WORLD MARITIME HISTORY I: ANTIQUITY TO AGE OF DISCOVERY****CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 100 or Equivalent**

A review of maritime activities through the age of exploration. Emphasis is placed on the development of maritime commerce, naval warfare, improvements in naval architecture and ship design, and the role of waterways in the ancient world. The impact of maritime affairs on the establishment of overseas possessions, domination of the world's sea lanes, and on political, economic, socio-cultural and diplomatic constructs will be examined.

MPM**HIS 316. WORLD MARITIME HISTORY II: AGE OF EXPLORATION THROUGH THE NUCLEAR AGE****CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 100 or Equivalent**

A review of maritime activities from the age of exploration through the twentieth century. Emphasis is placed on the development of maritime commerce, piracy and naval warfare, voyages of discovery, establishment of overseas possessions and domination of the world's sea lanes. The impact of maritime affairs on political, economic, socio-cultural military and diplomatic constructs will be examined.

MPM

HIS 350. RACE, CLASS AND GENDER IN THE MARITIME WORLD**CLASS HOURS: 3, CREDIT: 3****Prerequisite: HIS 100 or HIS 101;
EGL 100 or Equivalent**

This course examines the maritime world as viewed through the lenses of race, class and gender, and looks at the role these social constructs play in American and global maritime history. Topics include: maritime labor and marginalized workers, the "radical seas" and the ocean as heterotroph, women at sea and the paradox of femininity. The changing nature of maritime labor, and the increasingly globalized nature of the industry, will be examined from a variety of perspectives.

MPM**HIS 360. BAY AREA MARITIME HISTORY****CLASS HOURS: 3, CREDIT: 3****Prerequisite: HIS 100 or HIS 101; EGL 100
or Equivalent**

An investigation of the history and maritime heritage of the San Francisco Bay Area. Topics include: indigenous uses of the Bay, Spanish and Mexican California, the Gold Rush as a maritime phenomenon, post-Rush maritime developments, maritime labor and the shipbuilding industry, the role of the Navy in the Bay Area. The rise of San Francisco from colonial outpost to international entrepot, economic activity and environmental issues, and the impact of globalization on the region will be examined from a variety of perspectives.

MPM**HIS 385. STUDY ABROAD ELECTIVE****MPM****HIS 390. INDEPENDENT STUDY****MPM****HIS 395. SPECIAL TOPICS****MPM****HUMANITIES****HUM 100. HUMANITIES****CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

A survey of several arts (painting, sculpture, music, theater, film, dance, and architecture) in the Western world and in other cultures, concentrating on the media, basic perceptions, and terminology necessary to enhance overall comprehension and experience of the stylistic examples provided. Art is seen as a view of the universe and of human reality, expressed in a particular medium and shared with others in order to enrich one's understanding of our existence.

CC**HUM 101. PERSPECTIVES IN CULTURE:
THE ANCIENT WORLD THROUGH THE
RENAISSANCE****CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

A survey of the humanities, encompassing history, philosophy, theology, literature, painting, sculpture, music, theater, dance and architecture from the ancient world through the European Renaissance. Emphasis is placed on understanding how communities and individuals shape and create symbolic structures in the pursuit of truth, beauty, nature, pleasure, and justice. Art is seen as a view of the universe and of human reality expressed in a particular medium and shared with others in order to enrich one's understanding of our existence.

CC

**HUM 102. PERSPECTIVES IN CULTURE:
POST-RENAISSANCE TO THE PRESENT
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

A survey of the humanities, encompassing history, philosophy, theology, literature, painting, sculpture, music, theater, dance and architecture following the European Renaissance to the twenty-first century. Emphasis is placed on understanding how communities and individuals shape and create symbolic structures in the pursuit of truth, beauty, nature, pleasure, and justice. Art is seen as a view of the universe and of human reality expressed in a particular medium and shared with others in order to enrich one's understanding of our existence.

CC**HUM 110. WORLD CULTURE JOURNEYS
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

An introduction to the history, culture, and society of those regions to be visited by the TSGB on its annual cruise. Major emphases will be on the indigenous cultures, traditions, and sociopolitical systems of the region under discussion. The course will emphasize the concept of cultural roots and developments, demonstrating how cultural ideas appear in different forms and influence one another. Students are expected to come away from the course with a heightened awareness of, and a deeper appreciation and respect for, the region that they will soon visit as representatives of this campus and this country.

CC**HUM 130. CREATIVITY
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

This course follows Ken Wilber's four-quadrant model, and investigates creativity as it manifests in the individual, the team, the product, and the system. Major questions to be investigated include the following: What is creativity? Why should I study it? What processes can I use to become more creative? How can being part of a team or supportive community enhance creativity? Which aesthetic standards hold true for all domains, and which are particular to a certain field of study? How can organizational structures enhance or impede creativity? Students will focus on both theory and practice as they apply the findings from research to their own lives.

This interdisciplinary course will use examples from not only the arts (visual, performing, and literary) but also mathematics, science, engineering, business, and sports.

CC**HUM 185. STUDY ABROAD ELECTIVE****CC, ET, ME****HUM 300. ART OF THE CINEMA
CLASS HOURS: 4, CREDIT: 3****Prerequisite: EGL 220**

A study of the importance of film as an effective form of artistic expression, particularly as a reflection of worldwide values and attitudes in the Twentieth and Twenty-First Centuries. Emphasis is placed on major cinematic techniques, cinema history and the importance of film analysis. Full-length films will be viewed weekly and discussed, followed by written analyses.

CC

**HUM 305. COMPARATIVE
WORLD RELIGIONS
CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 100**

A comparative inquiry into the nature of major religions of the world. A broad overview that will familiarize the student with the major traditions, basic beliefs, religious literature, and cultural implications of the great religions of the world. It is hoped that such an investigation will create or affirm a respect for diverse cultures, peoples, and worldviews. Students should come away from this course with a heightened appreciation for this diversity, having not only examined some of the truths and doctrines of these great wisdom traditions, but also having embraced an extended vision of the world's cultures.

CC**HUM 310. ENGINEERING ETHICS
CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 220, Junior or Senior Class Standing**

This course addresses the major concepts of ethics as applied to the discipline and practice of engineering. Topics include the scope and aims of engineering ethics, moral reasoning and ethical theories, engineering and society, ethics and the law, the engineer's responsibility for safety, engineers and the corporation, conflict of interest, crime in the workplace, rights of engineers, rules of professional conduct, global ethical issues involving the engineering community, engineering ethics in the computer age, environmental ethics, engineers as managers and leaders, engineers as expert witnesses, and steps to principled reasoning and common rationalizations.

ET, ME

SEE ELECTIVES FOR A LISTING OF OTHER COURSES THAT MIGHT FULFILL A HUMANITIES ELECTIVE, ELEC 21 (LOWER DIVISION) AND ELEC 22 (UPPER DIVISION).

**HUM 325. GLOBALIZATION OF CULTURE
CLASS HOURS: 3, CREDIT: 3****Prerequisite: EGL 100**

A study of globalization through the medium of culture. Instead of emphasizing the indigenous roots of native cultures, this course examines emergent cultural formations brought about by postcolonialism, internationalism, and new forms of media interrelations that produce a new culture of hybridity and heterogeneity. Attention is given to the identification, interpretation and interrogation of late twentieth-century and early twenty-first century cultural formations (literature, film, music, performance arts) that are produced and consumed in ways that resist traditional classifications according to national or regional identity.

CC**HUM 385. STUDY ABROAD ELECTIVE****CC, ET, ME****HUM 390. INDEPENDENT STUDY****CC, ET, ME****HUM 395. SPECIAL TOPICS****CC, ET, ME****HUM 400. ETHICS (CSL)
CLASS HOURS: 3, CREDIT: 3
COMMUNITY SERVICE HOURS: 12****Prerequisite: None**

This course examines ethical dilemmas from theoretical perspectives and considers their application to personal and social issues, with an emphasis on moral reasoning and decision-making. Students examine a variety of controversial moral issues and see how different views can be reached by appealing to different moral and ethical premises. Students will apply basic ethical theories to specific moral problems within their own fields of study. This course may include a Community Service Learning component.

CC

LANGUAGES**LAN 110. SPANISH I****CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

The course provides students with basic vocabulary and syntactic structures in Spanish. Conversation skills, listening comprehension, and reading/writing ability are emphasized. Points of interest regarding various Hispanic cultures will be presented.

CC**LAN 115. SPANISH II****CLASS HOURS: 3, CREDIT: 3****Prerequisite: LAN 110**

A continuing study of Spanish through listening, speaking, reading translation, composition, and grammatical analyses and application. Cultural knowledge continues to be an important component; elements of Hispanic character and customs are studied.

CC**LAN 120. CHINESE I****CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

The course provides students with basic character and vocabulary structures in Mandarin Chinese. Conversation skills, listening comprehension, and reading/writing ability are emphasized. Points of interest regarding Chinese cultures are presented.

CC**LAN 125. CHINESE II****CLASS HOURS: 3, CREDIT: 3****Prerequisite: LAN 120**

A continuing study of Mandarin Chinese through listening, speaking, reading translation, composition, and grammatical analysis and application. Points of interest regarding Chinese cultures will continue to be presented.

CC**LAN 185. STUDY ABROAD ELECTIVE****CC****LAN 385. STUDY ABROAD ELECTIVE****CC****LAN 390. INDEPENDENT STUDY****CC****LAN 395. SPECIAL TOPICS****CC**

LAW**LAW 100. BUSINESS LAW
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

This course presents business law principles at the appropriate undergraduate level for understanding those that are most useful and widely applied in the contemporary workplace. Students learn how the legal system facilitates business operations and discourages or controls harmful business practices. Students will recognize that the law is an integral part of our social system, both in shaping and being shaped by the broader society. Topics include law as a business foundation; alternative dispute resolution, litigation and the court system; contract law principles; intellectual property; business torts and crimes; business organizations with emphasis on corporations; international business transactions and devices; real and personal property systems; ethics; and preparing contract proposals.

MPM**LAW 185. STUDY ABROAD ELECTIVE****MPM****LAW 200. ENVIRONMENTAL LAW
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

This survey course presents environmental law in a marine context. Students review laws governing pollution, radioactive waste, fisheries conservation, maritime occupational safety laws, and enforcement. Upon completion of the course, students will have current information concerning how environmental laws and regulations affect the mariner.

MPM**LAW 300. INTERNATIONAL LAW
CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

This course presents international law in a maritime context. Topics include the sources of international maritime law; the state-centric system; treaties; legal aspects of land, air, and water territories; law of the sea; piracy and maritime terrorism; ISPS Code; international jurisdiction over persons and vessels; international arbitration and courts; the law of war; and the law of war at sea. Practical, useful, contemporary knowledge is provided along with an appreciation and discussion of the esoteric nature of international maritime law. Readings involve case studies while lectures offer substantive international law as it shapes the maritime world. Historic as well as current issues are discussed employing balanced perspective and dialogue.

MPM**LAW 315. ADMIRALTY LAW
CLASS HOURS: 2, CREDIT: 2****Prerequisite: Junior Class Standing or Documented Maritime Experience**

This course focuses on the legal principles applicable to maritime commerce upon the seas and navigable water, traditionally called admiralty law. Topics include development of general maritime law and American admiralty law, indicia of jurisdiction, scope of the maritime jurisdiction, substantive maritime law, maritime liens, towage, salvage, maritime torts, collision law, worker's compensation claims, wrongful death, limitation of liability, and jurisdiction and procedure in maritime claims.

MPM**LAW 385. STUDY ABROAD ELECTIVE****MPM****LAW 390. INDEPENDENT STUDY****MPM****LAW 395. SPECIAL TOPICS****MPM**

LEADERSHIP**LDR 185. STUDY ABROAD ELECTIVE*****MPM*****LDR 210. FOUNDATIONS OF LEADERSHIP****CLASS HOURS: 3. CREDIT: 3****Prerequisite: None**

This course is designed to assist students with developing the skills needed to be successful for a lifetime of engaged, responsible leadership. The course examines leadership in the context of a changing and culturally diverse workplace. Students gain an understanding of leadership and how this concept has developed over time. Various leadership models, from around the world and from different historical epochs, are studied and analyzed. Additionally, students reflect on the meaning of ethics and decision-making in the contemporary world. Emphasis is placed on interpersonal skills, team building, communication, personal development, and leadership. Students develop personal attributes and social skills and are provided with opportunities to apply their knowledge. This course serves as a beginning point for an examination of issues and concepts involved in the study of leadership and begins the process of preparing students for a lifetime of engaged, responsible leadership.

MPM**LDR 385. STUDY ABROAD ELECTIVE*****MPM*****LDR 390. INDEPENDENT STUDY*****MPM*****LDR 395. SPECIAL TOPICS*****MPM*****LIBRARY****LIB 100. INFORMATION FLUENCY IN THE DIGITAL WORLD****CLASS HOURS: 2, CREDIT: 2****Prerequisite: None**

This class will provide students with an introduction to research, information management and computing technology skills that are fundamental for success in the college environment and beyond. Students explore the research process, develop efficient search methodologies in an online environment, and learn to critically evaluate resources. Simultaneously, students are given an orientation to the use of Microsoft Office programs, with special attention paid to information management, critical-thinking and problem-solving.

LIB**LIB 185. STUDY ABROAD ELECTIVE*****LIB*****LIB 385. STUDY ABROAD ELECTIVE*****LIB*****LIB 390. INDEPENDENT STUDY*****LIB*****LIB 395. SPECIAL TOPICS*****LIB***

MANAGEMENT

MGT 105. MANAGEMENT AND ORGANIZATIONAL BEHAVIOR **CLASS HOURS: 3, CREDIT: 3**

Prerequisite: None

This course explores important transitions and trends in the environment of contemporary global business processes and activities. Its main focus is the human resources channel of the supply chain, including the primary functions of recruiting, training, and work force maintenance. Within this primary focus, control mechanisms (such as protection of the confidentiality of employee records), labor relations, leadership, organizing, and planning are addressed. Case examples in the maritime and logistics industry will frequently be referenced to enhance course objectives.

MPM

MGT 185. STUDY ABROAD ELECTIVE

MPM

MGT 205. ORGANIZATIONAL BEHAVIOR AND LABOR RELATIONS **CLASS HOURS: 3, CREDIT: 3**

Prerequisite: None

A comprehensive overview of the theory and practice of planning and managing human capital in business organizations. The student acquires a knowledge and understanding of human resource management, unionism, multiculturalism, diversity, and the integration of business and government in organizing, planning, and controlling human resources.

MPM

MGT 300. ADVANCED MANAGEMENT TECHNIQUES **CLASS HOURS: 3, CREDIT: 3**

Prerequisite: None

This course gives the student a basic understanding of quantitative methods and their application to business decision making. The course includes statistics, probability, mathematics of finance, and inventory control. The use of computers for decision-making in management is also included. (For MT Only)

MPM

MGT 305. INFORMATION SYSTEMS MANAGEMENT **CLASS HOURS: 2, LAB HOURS: 2, CREDIT: 3**

Prerequisite: COM 100 or Equivalent Course

A comprehensive study of the use of computers for management decision making. An examination of traditional information systems and system development techniques focusing on the end user's perspective. The course uses applications software to develop a knowledge of the computer environment. Students use databases to analyze information about the business environment from financial databases, and other library and college databases.

MPM

MGT 310. PORT AND TERMINAL MANAGEMENT AND OPERATIONS **CLASS HOURS: 3, CREDIT: 3**

Prerequisite: ECO 100, MGT 100 or MGT 105

This course provides an overview of modern port and terminal operations, including logistics processes such as on-dock rail, strategic and tactical planning, harbor drayage, terminal gate protocols, equipment and cargo management, and integration of marine port and terminal operations with other modes of transportation. The student will gain an introduction to several different types of marine terminals, including containerized liner facilities, dry bulk, and liquid bulk facilities, ro-ro terminals, and others. The class presentation will be rooted in a brief historical review of developments in maritime industry and policy.

MPM

MGT 315. INTERNSHIP**CREDIT: 2-3****Prerequisite: Junior Class Standing, with the permission of Department Chair; MGT 100 or MGT 105**

Students may apply to complete an industry internship. Each assignment depends on each student's specialty or special area of interest. The activities may include vessel and stevedoring companies, shipyards, government agencies, ship brokerage, chartering firms, port authorities, insurance firms, or truck, rail, pipeline, or air carriers. Upon completion of the assignment, each student must submit a written report on their experiences and the training received. Management issues are the focal points of the assignment and paper. The internship is only offered during the summer break and for a minimum of two weeks.

MPM**MGT 325. PRINCIPLES OF PURCHASING****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MGT 340**

This course covers supply and purchasing in modern business, and its role in global supply chain management and strategy. Students analyze and critique complex international cases based on real problems and real enterprises, learn what supply and suppliers can do to increase revenues and reduce costs, and study the total supply management process in the context of organizational goals and supply chain management. Topics include a discussion of statistical process review, product and service supplier selection, outsourcing, ISO 9000, contracts, negotiations, cultural and ethical issues in supply management, and security, environmental, and product safety issues.

MPM**MGT 335. ADVANCED INFORMATION SYSTEMS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MGT 305**

An introduction to the concepts and principles of information systems in the context of modern organizations. The practical learning will include database management, how to provide timely, accurate and relevant information to users in the organization, and how to use linear programming to quantify, format and solve business problems.

MPM**MGT 340. GLOBAL LOGISTICS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MTH 100**

This course covers logistics, the science of movement of materials from their origins as raw material and through to the customer, a critical factor in today's global business environment, and of which the maritime profession is a crucial part. Enterprises of all kinds find logistics to be a key difference for their customers, and an important way to get competitive advantage. Many recent business successes rely on visions involving logistics, and exploit the latest technologies. Students learn current ideas and technologies in the field from transportation, warehousing, inventory, product design, packaging, security, and reverse logistics, and look at global and management issues as well. Case analysis makes students devise answers and look at alternatives closely, so they can find their own answers later in their career.

MPM**MGT 385. STUDY ABROAD ELECTIVE****MPM****MGT 390. INDEPENDENT STUDY****MPM****MGT 395. SPECIAL TOPICS****MPM**

MGT 400. STRATEGIC MANAGEMENT**CLASS HOURS: 3, CREDIT: 3****Prerequisite: Senior Class Standing**

A capstone course that requires computer modeling and the use of most of the courses in the business curriculum to solve problems in business management. Because the course is an integrative case study course, students must use knowledge acquired in management, finance, accounting, and statistical analysis.

MPM**MGT 410. QUANTITATIVE MANAGERIAL METHODS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MTH 107**

Practical applications of mathematical models for managerial decision-making. Topics include basis for optimization of decisions, linear and integer programming, transportation problems, queuing theory and simulation. Use of MS Excel as a tool for conducting optimization studies. Students use case analysis to learn how to develop and assess validity of models.

MPM**MGT 415. OPERATIONS MANAGEMENT****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MTH 107**

This course focuses on the concepts of production management. Topics include a discussion of manufacturing and service processes and strategies, production capacity analysis, quality management and other concepts.

MPM**MGT 420. SUPPLY CHAIN MANAGEMENT****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MTH 107**

A focus on the basic techniques and strategic issues of global supply chain management, including the impact of culture, strategic planning, organization, and management control, which add value during the successful movement of products from their origins as raw materials to their final destinations as finished products. Specific topics may include customer service, e-commerce, facilities location, routing and pricing, storage, transportation, emerging technologies, and re-engineering the supply chain. Examples will be drawn from supply chains including a maritime link.

MPM**MGT 440. LOGISTICS CASE ANALYSIS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MGT 340, MGT 420**

A capstone course in logistics management requiring students to utilize and integrate their knowledge acquired in courses taken previously which deal with supply chains, transportation, and logistics. Several modes of learning advance students' ability to analyze complex logistics and supply chain scenarios and make decisions. Student teams compete in a logistics operations simulation with the goal of maximizing logistics contribution through their decision making. Case studies with written reports and presentations teach students to apply modern principles and practices to achieve competitive advantage. Short critical reviews of current journal articles show how modern techniques are applied. A logistics consulting project with an outside client allows students to see and deal with real situations and practitioners. Quantitative and qualitative modeling techniques are employed and Microsoft Excel, as well as other computer software, is utilized.

MPM

MARINE SCIENCE

MSC 100. INTRODUCTION TO GEOLOGICAL AND CHEMICAL OCEANOGRAPHY CLASS HOURS: 3, CREDIT: 3

Prerequisite: None

This course covers the history of oceanography, seafloor features, global plate tectonics, marine sediments, the chemistry of seawater, dissolved gases in seawater, and ocean resources. The course meets a natural science elective requirement.

SM

MSC 105. INTRODUCTION TO BIOLOGICAL AND PHYSICAL OCEANOGRAPHY CLASS HOURS: 3, CREDIT: 3

Prerequisite: None

An introduction to atmosphere-earth-ocean interactions, global climate processes, ocean circulation, waves, tidal processes, plankton, nekton, and benthic organisms. The course meets a natural science or life science elective requirement.

SM

MSC 185. STUDY ABROAD ELECTIVE

SM

MSC 200. OCEANOGRAPHIC INSTRUMENTS AND ANALYSIS CLASS HOURS: 2, CREDIT: 3

Prerequisite recommended: MSC 100

This course provides students a hands-on experience with oceanographic sampling and analysis. Students learn techniques for measuring temperature, salinity, dissolved oxygen, phosphate, chlorophyll, pH and carbon dioxide, and submarine light levels. Two field trips are planned for the course.

SM

MSC 200L. OCEANOGRAPHIC INSTRUMENTS AND ANALYSIS LAB

LAB HOURS: 3, CREDIT: 0

SM

MSC 205. MARINE BIOLOGY CLASS HOURS: 3, CREDIT: 3

Prerequisite recommended: MSC 105

This course covers marine invertebrates, marine algae, marine fishes, and marine mammals. Other topics covered are the ecology of tidepools, mudflats, sandy beaches, tropical reefs, and the deep benthos. The course meets a natural science or life science elective requirement.

SM

MSC 385. STUDY ABROAD ELECTIVE

SM

MSC 390. INDEPENDENT STUDY CLASS HOURS: VARIABLE, CREDIT: 3

Prerequisite: MSC 100, MSC 105, MSC 200, MSC 205

A requirement for students completing the Marine Science Minor. The student chooses a topic of study and completes an independent study project under the direction of the Marine Science minor advisor. The project culminates with a written and oral reports.

SM

MSC 395. SPECIAL TOPICS

SM

MARITIME POLICY & MANAGEMENT**MPM 185. STUDY ABROAD ELECTIVE****MPM****MPM 190. T.S.G.B./INTERNATIONAL EXPERIENCE PREPARATION****CLASS HOURS: 1, CREDIT: 1****Prerequisite: None**

This course is offered in the spring term to Business and Global Studies students prior to participation in their *Training Ship GOLDEN BEAR* cruise, or any of the international experiences offered by the ABS School of Maritime Policy and Management. As part of the course, students will complete all necessary pre-trip plans, including document collection, medical information training, language primers, and associated tasks. Students plan and arrange for site visits, factory or transport enterprise visits, seminars, and other activities to be conducted while in port and during voyages.

MPM**MPM 195. T.S.G.B./INTERNATIONAL EXPERIENCE SPECIAL TOPICS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MPM 190**

A special topics course for Business and Global Studies students participating in their *Training Ship GOLDEN BEAR* cruise or their international experience. Topics are related to the specific destinations, and reflect the expertise and interest of the instructor as well as the nature of the itinerary.

MPM**MPM 385. STUDY ABROAD ELECTIVE****MPM****MPM 390. INDEPENDENT STUDY****MPM****MPM 395. SPECIAL TOPICS****MPM****MATHEMATICS****MTH 001. INTERMEDIATE ALGEBRA****CLASS HOURS: 4, CREDIT: 4****Prerequisite: Beginning Algebra**

A review of algebra at an intermediate level. Topics include sets and operations, equations and inequalities, polynomials, rational expressions, rational exponents, roots, radicals, quadratic equations, graphing equations, and functions.

XL | Graded: A, B, C, NC.**MTH 100. COLLEGE ALGEBRA AND TRIGONOMETRY****CLASS HOURS: 4, CREDIT: 4****Prerequisite: Two years of high school algebra or MTH 001, or passing score on ELM, or otherwise exempt from remediation.**

This course combines the necessary elements of college algebra and trigonometry to prepare students for subsequent study of calculus, computer programming, navigation and the physical sciences. Topics include linear, quadratic and higher polynomial equations, rational logarithmic and exponential functions and equations, trigonometric functions and their inverses and equations, with graphical representation of all of the above. Other topics are generalized and periodic functional relationships, multivariable systems with matrix algebra including inversion and determinants, complex numbers, vectors and appropriate computational methods, the rapid computation of values in plane triangles and various functions using a pocket calculator.

SM**MTH 105. FINITE MATH****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MTH 100**

A foundation course on basic theories and models of mathematics and how these models can be applied to decision making in business. Topics include systems of linear equations, linear programming, the mathematics of finance, probability, and basic concepts of statistics.

SM

MTH 107. ELEMENTARY STATISTICS**CLASS HOURS: 3, CREDIT: 3****Prerequisite: MTH 100 or ELEC 70**

This course is a study of general concepts of statistics, including sampling, probability distributions, statistical inferences, confidence intervals, hypothesis tests, and correlations. Graphing calculators and computers are used extensively to describe and analyze data.

SM**MTH 185. STUDY ABROAD ELECTIVE****SM****MTH 205. CALCULUS FOR BUSINESS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MTH 100 with a C- or higher**

This course focuses on basics of calculus and the application of this topic to business decision-making and problem solving. Students concentrate on formulae that will be performed on Excel later in the curriculum. The course presents math theory and math models. Exercises in critical thinking and model building are introduced, along with the application of these tools to the quantitative analysis of business problems.

SM**MTH 210. CALCULUS I****CLASS HOURS: 4, CREDIT: 4****Prerequisite: MTH 100 or equivalent with a C- or higher**

An introduction to functions and limits, differentiation, applications of differentiation, integration, and applications of the definite integral.

SM**MTH 211. CALCULUS II****CLASS HOURS: 4, CREDIT: 4****Prerequisite: MTH 210 with a C- or higher**

An introduction to additional methods of integration and improper integrals. Trigonometric and hyperbolic functions and their inverses, infinite sequences and series, and linear, ordinary first, and second-order differential equations are covered.

SM**MTH 212. CALCULUS III****CLASS HOURS: 4, CREDIT: 4****Prerequisite: MTH 211 with a C- or higher**

An introduction to the algebra and calculus of vectors. Topics include functions of several variables and partial differentiation, as well as multiple integration and vector analysis.

SM**MTH 215. DIFFERENTIAL EQUATIONS****CLASS HOURS: 4, CREDIT: 4****Prerequisite: MTH 211 with a C- or higher**

This course introduces first-order differential equations and second-order differential equations with constant coefficients. Laplace transforms, small systems of linear differential equations, and numerical methods are presented, along with an introduction to second-order differential equations.

SM**MTH 385. STUDY ABROAD ELECTIVE****SM****MTH 390. INDEPENDENT STUDY****SM****MTH 395. SPECIAL TOPICS****SM**

MECHANICAL ENGINEERING**ME 185. STUDY ABROAD ELECTIVE****ME****ME 220. COMPUTER AIDED ENGINEERING
CLASS HOURS: 2, CREDIT: 2****Prerequisite: None**

This course familiarizes students with virtual product development and fundamentals of parametric design and solid modeling using advanced engineering software tools. Complex component design, assembly design and the development of working drawings are also covered. Students participate in Team Design/Reverse Engineering Projects.

ME**ME 230. ENGINEERING MATERIALS
CLASS HOURS: 3, CREDIT: 3****Prerequisite: CHE 100**

An examination of the properties of materials from atomic through molecular levels, looking at crystal structure. Emphasis is on metals, but nonmetals are discussed. Mechanical properties, creep, fatigue, corrosion, and failure characteristics are discussed. Phase Diagrams and thermal processing are studied. Applying material properties in design is discussed.

ME**ME 232. ENGINEERING STATICS
CLASS HOURS: 3, CREDIT: 3****Prerequisite: PHY 200**

An analysis of particles and rigid bodies at rest, using vector methods. Topics include the concepts of forces, moments, and equivalent force systems, calculation and use of centroids, equilibrium of rigid bodies, force analysis of trusses, frames, and machines, internal forces in structural members, and friction.

ME**ME 240. ENGINEERING THERMODYNAMICS
CLASS HOURS: 3, CREDIT: 3****Prerequisite: PHY 200**

A study of the basic principles of thermodynamics and their applications to engineering processes and cycles. Topics include study of the first and second laws of thermodynamics and the application of these laws to thermodynamic systems, with emphasis on power and refrigeration cycles.

ME**ME 330. ENGINEERING DYNAMICS
CLASS HOURS: 3, CREDIT: 3****Prerequisite: ME 232, MTH 212**

An analysis of particles and rigid bodies in motion using vector methods, calculus, and analytical geometry. Topics include kinematic analysis of motion and relative motion, kinetic analysis of forces and motion, rotation and translation of rigid bodies, work-energy methods, and impulse-momentum methods.

ME**ME 332. MECHANICS OF MATERIALS
CLASS HOURS: 3, CREDIT: 3****Prerequisite: ME 230, ME 232, MTH 211**

A study of the application of stress and strain in design and the analysis of simple structural members under load. Stresses and deformations in members with a single load in tension, torsion, shear or bending moment are analyzed, followed by the transformation of stresses and effects of combined loads. The analysis of statically indeterminate structures is also included.

ME

ME 339. MATERIAL/MECHANICAL LAB**CLASS HOURS: 1, CREDITS: 2****Prerequisite: ME 332, ME 360****Co-requisite: ME 339L**

A study of the principles of material science, mechanics of materials, and dynamics – applied, reinforced, and assessed through a series of experiments. The experiments involve calibration of instruments, measurement of mechanical quantities using data acquisition systems, the analysis of data in order to derive experimental results, estimates of uncertainties in the results, and comparison of the results with predicted outcomes based on theory. Experimental theory, procedures, and results are presented in formal written reports and oral presentations.

ME**ME 339L. MATERIAL/MECHANICAL LAB****LAB HOURS: 2****Co-requisite: ME 339****ME****ME 340. ENGINEERING FLUID MECHANICS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MTH 212, PHY 200**

This course covers the theory and fundamental principles of incompressible fluid flows. Topics include hydrostatic fluids, continuity, linear momentum, Bernoulli equations for control volumes, dimensional analysis, viscous duct flows, boundary layer flows, centrifugal and axial flow pumps, and pump performance curves and similarity rules.

ME**ME 342. REFRIGERATION AND AIR CONDITIONING****CLASS HOURS: 3, CREDIT: 3****Prerequisite: ME 240**

This course examines the application of principles of thermodynamics and fluid mechanics to the selection and evaluation of air conditioning and refrigeration systems' performance. Topics include vapor-compression cycle performance, load calculations, refrigeration system component characteristics, refrigerant characteristics, environmental responsibilities, psychometrics and basic conditioning processes, and system balancing of refrigeration systems. Absorption refrigeration systems and cooling tower performance are also studied.

ME**ME 344. HEAT TRANSFER****CLASS HOURS: 3, CREDIT: 3****Prerequisite: ME 240, ME 340, MTH 215**

A study of the fundamental mechanisms of the transfer of energy in the form of heat, including conduction, convection, and radiation. Topics include steady and transient conduction, free and forced convection, radiation, and heat exchanger analysis and design.

ME**ME 349. FLUID/THERMAL LAB****CLASS HOURS: 1, CREDIT: 2****Prerequisite: ME 344, ME 360****Co-requisite: ME 349L**

This course examines the principles and applications of fluid mechanics, thermodynamics and heat transfer through a series of laboratory experiments. Experiments to demonstrate fluid flow measurements, the first and second laws of thermodynamics, conduction and convection heat transfer, heat exchanger analyses and performance, and gas turbine and gasoline engine cycles. Acquisition and statistical analyses of experimental data, and professional laboratory reports are also included.

ME

ME 349L. FLUID/THERMAL LAB**LAB HOURS: 2****Co-requisite: ME 349****ME****ME 350. ELECTROMECHANICAL MACHINERY****CLASS HOURS: 3, CREDIT: 3****Prerequisite: ENG 250, ENG 250L****Co-requisite: ME 350L**

This course covers the fundamentals of magnetism, magnetic circuits, and transformers. Topics include the principles and operation of series, shunt, compound DC generators and motors, single-phase and three-phase AC generators, synchronous and induction AC motors, DC and AC motor controllers, and stepper motors; and system protective devices and safety.

ME**ME 350L. ELECTROMECHANICAL MACHINERY LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite: ENG 250, ENG 250L****Co-requisite: ME 350**

This course supports the instruction and theory of ME 350 using hands-on motor operation and analysis.

ME**ME 360. INSTRUMENTATION AND MEASUREMENT SYSTEMS****CLASS HOURS: 2, CREDIT: 2****Prerequisite: ENG 210, ENG 250, ENG 250L****Co-requisite: ME 360L**

This course covers the measurement techniques for mechanical testing including types of signals, dynamic response of measurement systems, frequency response, uncertainty analysis, types of instruments, basic input circuits, signal conditioning, computer based data acquisition, sampling, A/D conversion, time and frequency analysis, statistical analysis of data.

ME**ME 360L. INSTRUMENTATION AND MEASUREMENT SYSTEMS LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite: ENG 210, ENG 250, ENG 250L****Co-requisite: ME 360**

This course covers data acquisition using a PC and LabView. construction and the use of basic input circuits. The use of signal conditioning to improve the quality of measurements, the calibration and use of common instruments, including strain gages, thermocouples, photovoltaic cells, RTDs, and accelerometers, and an examination of the dynamic response of instruments are covered. Time domain and frequency domain analysis of data, presentation of data, uncertainty estimates of measured data, and the output of control signals are also covered. A final project is required.

ME**ME 385. STUDY ABROAD ELECTIVE****ME****ME 390. INDEPENDENT STUDY****ME****ME 392. MECHANICAL DESIGN****CLASS HOURS: 3, CREDIT: 3****Prerequisite: ME 332**

A general overview of fundamentals of applied loads, material properties, stress and strains, stress concentrations, static and dynamic failure theories, and some tribological considerations. Students relate these fundamentals to various machine elements such as columns, thin and thick-walled cylinders, shafting and associated parts, bearings, gears fasteners and power screws, springs, brakes and clutches, and flexible machine elements. A design project is assigned to each group of students.

ME

ME 394. FLUID/THERMAL DESIGN**CLASS HOURS: 3, CREDIT: 3****Prerequisite: ME 344**

This course covers the analysis and design of fluid and thermal systems. Topics include instruction in piping systems, with the economics of pipe size selection and the sizing of pumps for systems, as well as double pipe, shell and tube, and cross flow heat exchangers, configuration, selection, analysis, and design.

ME**ME 395. SPECIAL TOPICS****ME****ME 429. MANUFACTURING PROCESSES LAB****CLASS HOURS: 1, LAB HOURS: 2
CREDIT: 2****Prerequisite: EPO 215, ME 220****Co-requisite: ME 494**

This course covers the principles of manufacturing processes in the areas of metal removal, forming, joining, casting, and fundamentals of numerical control. Study of manufacturing includes design aspects, material considerations, review of latest methods, and numerical controlled machining utilizing computer graphics and solid modeling. (Pro/Engineer and Pro/Manufacturing)

ME | Formerly ME 329**ME 430. MECHANICAL VIBRATIONS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: MTH 215, ME 330**

An analysis of mechanical systems undergoing vibration. Topics include free response of vibrating systems, response to harmonic excitation, response to general excitation, analysis of multi-degree-of-freedom systems using matrix methods, and techniques to suppress vibration. In addition, a series of laboratory experiments are done to demonstrate the theory learned in class.

ME**ME 432. MACHINERY DESIGN****CLASS HOURS: 4, CREDIT: 4****Prerequisite: ME 330, ME 332**

An introduction to the kinematics of mechanisms. Position, velocity, and acceleration analysis of mechanisms are discussed, along with linkage synthesis. Other topics include dynamics of machinery, mechanism design, cam design, gear train design, force analysis of mechanisms, and engine dynamics. Students will design, animate, analyze, and optimize complex three-dimensional mechanisms using virtual prototyping tools for mechanism design and analysis.

ME**ME 436. MECHATRONIC SYSTEM DESIGN****CLASS HOURS: 3, CREDIT: 3****Prerequisite: ENG 250, ME 330**

An introduction to a multidisciplinary field that combines electronics, control systems, mechanical design and simulation. Simulation and design of mechatronic systems with sensors, electronic controllers and mechanical actuators. Selection and mathematical modeling of system elements including common sensors, actuators and various electronic controllers.

ME**ME 440. ADVANCED FLUID MECHANICS AND THERMODYNAMICS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: ME 240, ME 340**

This course covers advanced topics in gas dynamics, including compressible flow analysis of converging-diverging nozzles, normal and oblique shock waves, compressible duct flow with friction, and advanced topics in thermodynamics, including irreversibility, availability, and second-law analysis of thermodynamic systems, gas and vapor mixtures, chemical reactions, and thermodynamics of propulsion systems with applications.

ME

ME 442. HEATING, VENTILATION, AND AIR CONDITIONING DESIGN
CLASS HOURS: 3, CREDIT: 3**Prerequisite:** ME 240, ME 340

An analysis and design of air conditioning systems for industrial and commercial applications. Topics include psychometrics, heating and cooling loads, HVAC systems and controls, infiltration, ventilation, fan performance, and duct design.

ME**ME 444. ENERGY SYSTEMS DESIGN**
CLASS HOURS: 4, CREDIT: 4**Prerequisite:** ME 344

This course covers the application of fundamentals of thermodynamics, fluid mechanics, heat transfer in design, analysis, and selection of power production systems, auxiliary power units, and heat exchange systems. Topics also include economic evaluation and preliminary cost of estimation of energy systems.

ME**ME 460. AUTOMATIC FEEDBACK CONTROL** ♦**CLASS HOURS: 3, CREDIT: 3****Prerequisite:** MTH 215, ME 360, ME 360L**Co-requisite:** ME 460L

A study of dynamic system modeling for various types of engineering systems. Analysis of dynamic systems using Laplace transform and state-space methods. Open and closed loop stability. Design of feedback controllers using root-locus and frequency response techniques. Extensive use of MATLAB for analysis and simulation.

ME**ME 460L. AUTOMATIC FEEDBACK CONTROL LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite:** MTH 215, ME 360, ME 360L**Co-requisite:** ME 460

Supports instruction and theory of ME 460 using MATLAB modeling and simulation with hands-on lab and case studies.

ME**ME 490. ENGINEERING DESIGN PROCESS**
CLASS HOURS: 3, CREDIT: 3**Prerequisite:** ENG 120, ME 240, ME 340, ME 332

An introduction to the tasks and practices of engineering design processes. These tasks include identifying objectives and constraints, establishing functions, generating concepts, evaluating design alternatives, designing product architecture, selecting materials, and using mathematical modeling. Auxiliary techniques such as engineering statistics, dimensional analysis, design optimization, engineering economics, and project management are also studied.

ME**ME 492. PROJECT DESIGN I**
CLASS HOURS: 3, CREDIT: 3**Prerequisite:** ME 490, Senior Class Standing

Capstone projects are assigned to groups of student teams who implement the process of engineering design. They identify a reasonable set of objectives, constraints, functions, and design specifications. They subsequently generate design concepts and evaluate their alternatives to select the design that best meets the user's requirements. The teams then work on product architecture, material selection, and mathematical modeling and engineering analysis. Finally, they are required to present and submit a preliminary design report for their senior projects.

ME**ME 494. PROJECT DESIGN II**
CLASS HOURS: 2, LAB HOURS: 2, CREDIT: 3**Prerequisite:** ME 492

Students complete the preliminary designs initiated in Project Design I (ME 492), a project that results in final and detailed designs. The tasks include refining the preliminary design, addressing design for assembly, design reliability and safety considerations, detailed drawings and bill of materials, prototyping and testing, product cost evaluation, and final design review. The students present and submit a final report for their senior design projects.

ME

NAUTICAL SCIENCE

NAU 102. NAVIGATION I

CLASS HOURS: 3, CREDIT: 4

Prerequisite: MTH 100

Co-requisite: NAU 102L

This course introduces the basic tools and theory of piloting. Elements include basic coastal piloting, using terrestrial features and various plotting systems and techniques. Chart interpretation, plotting, and correction are emphasized, as are passage planning and navigation cross-checking. Emphasis is placed on neatness and precision and, toward the end of the course, speed in arriving at basic piloting solutions. This course is the foundation upon which all subsequent navigation courses will build.

MT

NAU 102L. NAVIGATION I LAB

LAB HOURS: 2, CREDIT: 0

Prerequisite: Same as NAU 102

Co-requisite: NAU 102

MT

NAU 103. INTRODUCTION TO MARINE TRANSPORTATION

CLASS HOURS: 3, CREDIT: 3

Prerequisite: None

An introduction to the field of commercial marine transportation. This course provides a broad understanding of the maritime industry and relates the students' work and studies at CMA to the maritime world. It includes American maritime history, governmental policies and regulations, vessel and stevedore company organization, principles of foreign trade, documentation, and the various related organizations, both public and private.

MT

NAU 105. SHIP STRUCTURE ♦

CLASS HOURS: 2, CREDIT: 2

Prerequisite: None

A survey course of ship design and construction, emphasizing nomenclature and structural components, hull strength and vessel performance characteristics.

MT

NAU 110. SEAMANSHIP ♦

CLASS HOURS: 3, CREDIT: 3

Prerequisite: NAU 105

The study of basic seamanship, including sea terms and nomenclature, small boats, merchant ship characteristics, deck fittings, rigging, equipment, appliances, life-saving devices, and emergency procedures. Attention to the duties of a lookout/helmsman prepares students for duties on CRU 100.

MT

NAU 120. MARINE ENGINEERING ♦

CLASS HOURS: 3, CREDIT: 3

Prerequisite: None

The study of shipboard engineering equipment, systems, and procedures associated with the propulsion and control of steam, diesel, and gas-turbine-powered merchant ships. Several auxiliary systems such as electrical distribution, deck machinery, cargo pumps/valves, and steering gears are also covered.

MT

NAU 185. STUDY ABROAD ELECTIVE

MT

NAU 202. CELESTIAL NAVIGATION ♦

CLASS HOURS: 3, CREDIT: 4

Prerequisite: NAU 102, NAU 102L

Co-requisite: NAU 202L

A study of celestial navigation, including sun, moon, stars, and planets. Students are instructed in the use of modern sight reduction methods by table and calculator. Emphasis is placed on USCG/STCW requirements.

MT

NAU 202L. CELESTIAL NAVIGATION LAB ♦

LAB HOURS: 2, CREDIT: 0

Prerequisite: Same as NAU 202

Co-requisite: NAU 202

MT

NAU 205. SHIP STABILITY ♦

CLASS HOURS: 3, CREDIT: 3

Prerequisite: MTH 100, NAU 105, PHY 100
(may be taken concurrently), PHY 100L (may be taken concurrently)

A study of the statics of naval architecture for ship hulls, emphasizing application to stability, trim, volume, and moment calculations by the ship's officer. Methods of calculation for determination of intact, upright stability and trim, including free surface corrections, are introduced prior to a study of stability analysis techniques and criteria. Computer-based training and practical application of *Training Ship GOLDEN BEAR* stability software will be utilized, and stress calculations and damage stability concepts will be covered.

MT

NAU 302. ADVANCED NAVIGATION ♦

CLASS HOURS: 2, CREDIT: 3

Prerequisite: NAU 102, NAU 102L

Co-requisite: NAU 302L

This course covers the fundamental principles of electronic navigation systems and basic computational forms of sailings. The course consists of both classroom lecture and practical lab applications. Students should be able to demonstrate an understanding of the sailings, hyperbolic and radio navigation systems, and Global Positioning System. Integrated Bridge Systems and miscellaneous navigation topics will be covered. The concept of navigational crosschecking will permeate all subjects. Emphasis is placed on accuracy, neatness, precision and the good judgment required of a modern merchant mariner.

MT

NAU 302L. ADVANCED NAVIGATION LAB ♦

LAB HOURS: 2, CREDIT: 0

Prerequisite: Same as NAU 302

Co-requisite: NAU 302

MT

NAU 305. RULES OF THE ROAD ♦

CLASS HOURS: 2, CREDIT: 2

Prerequisites: CRU 100, CMA Sophomore Class Standing

Comprehensive study of the international rules of the road (COLREGS), including their origin, purpose, history, technical provisions, and application. Topics include a comparative study of both international and inland rules, along with their interpretation and practical application, as well as a study of case histories and legal interpretations resulting from collisions at sea.

MT

NAU 310. ELECTRICITY AND ELECTRONICS

CLASS HOURS: 3, CREDIT: 3

Prerequisite: MTH 100, PHY 100, PHY 100L

Co-requisite: NAU 310L

This course covers the theory of alternating current electricity, circuits, generators, motors, and semiconductors. It emphasizes shipboard systems, using STCW guidelines, to include regulatory and classification society requirements. In addition, radio communication theory is covered to the depth necessary for DL 240 (GMDSS).

MT

NAU 310L. ELECTRICITY AND ELECTRONICS LAB

LAB HOURS: 2, CREDIT: 1

Prerequisite: Same as NAU 310

Co-requisite: NAU 310

A hands-on lab designed to ensure that the students are proficient in the use of electrical/electronic test equipment such as multimeters and oscilloscopes, the reading and interpretation of schematics, and the use of technical manuals for trouble-shooting and for routine electrical/electronic maintenance.

MT

NAU 320. TANK VESSEL OPERATIONS ♦
CLASS HOURS: 3, CREDIT: 3**Prerequisite:** NAU 105 and NAU 205, or ENG 430

A study of ocean transportation of bulk liquid cargo. Areas covered include tanker construction and design, petroleum cargo characteristics, oil cargo planning and operations, ballasting, pollution control, safety, and U.S. Coast Guard regulations.

MT**NAU 325. CARGO VESSEL OPERATIONS ♦**
CLASS HOURS: 3, CREDIT: 3**Prerequisite:** DL 120, NAU 205

A study of the international movement of dry cargo and the role that the ship's officer plays as a front line manager in the shipping organization's structure. In relation to break bulk, bulk, and container operations, the course covers cargo handling equipment, stowage of various commodities, cargo plans and planning of stowage, transportation HAZMAT, and trim and stability considerations.

MT**NAU 330. METEOROLOGY ♦**
CLASS HOURS: 3, CREDIT: 3**Prerequisite:** MTH 100, PHY 100, PHY 100L

The science of meteorology covers principles of weather observations and reports; weather forecasting and the development of weather maps; and the study of air masses, fronts, winds and currents.

MT**NAU 335. ELECTRONIC CHART DISPLAY AND INFORMATION SYSTEMS (ECDIS) ♦**
CLASS HOURS: 2, CREDIT: 2**Prerequisite:** DL 325, DL 325L, MTH 100, NAU 102, NAU 102L, NAU 302 (may be taken concurrently), NAU 302L (may be taken concurrently)**Co-requisite:** NAU 335L

This course is specifically designed to instruct students in the theory and practical use of Electronic Chart Display and Information Systems (ECDIS). Topics also include raster and vector charts, use of ECDIS in voyage planning and recording, integration with other bridge systems like RADAR, ARPA, and AIS, the latest developments in ECDIS design and implementation, and current IMO regulations governing use of ECDIS. Students must be concurrently enrolled in NAU 335L.

MT**NAU 335L. ELECTRONIC CHART DISPLAY AND INFORMATION SYSTEMS (ECDIS) AB ♦**
LAB HOURS: 2, CREDIT: 1**Prerequisite:** Same as for NAU 335**Co-requisite:** NAU 335

This lab provides the practical application of skills learned in NAU 335 using electronic charting display and navigational equipment. Students must be concurrently enrolled in NAU 335.

MT | Graded: Credit/No Credit**NAU 385. STUDY ABROAD ELECTIVE****MT****NAU 390. INDEPENDENT STUDY****MT****NAU 395. SPECIAL TOPICS****MT**

**NAU 400. ADVANCED MARITIME TOPICS
CLASS HOURS: 3, CREDIT: 3**

Prerequisite: CRU 200, CRU 200L, DL 200 (may be taken concurrently), EGL 300

This course is designed to consolidate and advance the knowledge of seamanship gained by students in their earlier years at Cal Maritime, both on cruise and in the classroom. A study of the many aspects of seamanship is conducted, along with theoretical aspects of shiphandling. The steering gear, navigation safety regulations, and responsibility of the pilots are considered. Heavy weather, ice seamanship, and ground tackle are included. The ship's log and its legal standing are discussed, along with record keeping and the ship's officers' responsibility under the federal code, including ethics, alcohol and substance abuse issues, and crimes at sea. Students will be required to write a term paper and make an oral presentation to the class.

MT

**NAU 410. LICENSE SEMINAR
CLASS HOURS: 1, CREDIT: 2**

Prerequisite: Senior Class Standing, with graduation scheduled within the next six months. (License exam results expire one year after test date, and no license will be issued prior to a student's meeting all graduation requirements.)
Co-requisite: NAU 410L

This comprehensive course is designed to prepare candidates for the USCG OICNW exams. It requires the candidate to synthesize and apply myriad professional subjects learned in previous subject-specific courses, and perform with both precision and accuracy under time constraints. New topics and material pertinent only to USCG testing are covered, advanced material is reviewed in the context of USCG requirements (which differ from practical requirements), and theories and methods of knowledge retention and test-taking strategies are explored. Rules of the Road, navigation, seamanship, deck safety, environmental protection, cargo, watchstanding and other professional subjects are covered as they pertain specifically to USCG licensing. Course subject matter and strategy necessarily change as the USCG exams continually evolve.

MT

**NAU 410L. LICENSE SEMINAR LAB
LAB HOURS: 2, CREDIT: 0**

Prerequisite: Same as NAU 410
Co-requisite: NAU 410

MT

**NAU 415. TRANSPORTATION SECURITY ♦
CLASS HOURS: 3, CREDIT: 3**

Prerequisite for MT Students: CRU 200, NAU 325, Senior Class Standing
Prerequisite for BA Students: TRA 300

This course emphasizes maritime security on an operational level as opposed to a public policy perspective. It is modular in format and focuses on the International Ship and Port Security Code (ISPS), the Maritime Transportation Security Act of 2002 (MTSA) and domestic maritime security policies and requirements as outlined in the Code of Federal Regulations and USCG NVICs. Students will learn to understand port and ship vulnerability assessments, implement security plans, understand various levels of shipboard and terminal security responsibilities and administration. The course will also explore elements of chemical, biological and radiological defense (CBRD), crisis management, and equipment security technologies. Ship and terminal operations will be explored with respect to cargo and vessel screening programs and methods. Students successfully completing this course may earn industry-recognized security certificates.

MT

NAU 430. LIQUIFIED GAS CARGOS**CLASS HOURS: 2, CREDIT: 2****Prerequisite for MT Students: NAU 320****Prerequisite for MET & ME Students: CRU 350, ENG 430****Co-requisite: NAU 430L**

A study of the ocean transportation of liquified gas cargos, which includes liquified natural gas (LNG) and liquified petroleum gas (LPG). Areas covered include chemistry and physics, hazards, rules and regulations, ship design and cargo containment, cargo handling systems, safety, cargo handling operations, ship/shore interface, and emergency operations. The class, in conjunction with the Liquid Gas Cargo Simulator, will prepare the student to be a junior officer onboard liquid gas carriers.

MT**NAU 430L. LIQUIFIED GAS CARGOS LAB****LAB HOURS: 2, CREDIT: 1****Prerequisite for MT Students: NAU 320****Prerequisite for MET & ME Students: CRU 350, ENG 430****Co-requisite: NAU 430**

This class is taken concurrently with NAU 430. Through use of simulation, students conduct cargo operations and gain system understanding of liquified gas carriers.

MT | Graded: Credit/No Credit**NAVAL SCIENCE****NSC 100. NAVAL SCIENCE FOR THE MERCHANT MARINE OFFICER****CLASS HOURS: 3, CREDIT: 3**

An introduction to the organization of the US Navy (including the Naval Control of Shipping Organization), with a discussion of the Merchant Marine Naval Reserve commission in order to provide a sound basis for liaisons between the US Navy and the merchant marines. The concept of seapower is analyzed, with emphasis on the merchant marine-Navy interface in common seapower objectives. Underway replenishment and convoy operations are introduced.

NS**NSC 185. STUDY ABROAD ELECTIVE****NS****NSC 200. NAVAL SCIENCE FOR THE MERCHANT MARINE RESERVIST I****CLASS HOURS: 3, CREDIT: 3****Prerequisite: NSC 100**

Building on NSC 100, this course presents the nature of a hostile naval threat and types of surface, subsurface, and air attacks to which both US naval and merchant shipping can be subjected. Merchant ship self-defense maneuvers and naval escort defensive actions are analyzed. The student should become proficient in the merchant marine-Navy communication interface and in ship maneuvering when in convoy. Navy officer communities, administration, and organization are discussed. Warship design, propulsion, and damage control methods are also introduced.

NS

NSC 255. MIDSHIPMAN NAVAL TRAINING CRUISE
CREDIT: 3

Prerequisite: Sophomore Class Standing and must be sworn into the MMR program.

Co-requisite: May be concurrently taken with CRU 200/CRU 250 on board a Navy vessel.

A rigorous training cruise aboard a US naval surface vessel or submarine, or within an aviation squadron. The midshipman is involved in a variety of training evolutions consisting of fundamentals, systems, watch stations, and responsibilities normally assigned to junior commissioned officers. Eligible students are chosen to participate based on deck or engineering department chair recommendation (if taken concurrently with CRU 200/CRU 250) and Naval Science department chair approval. Students must have demonstrated the ability to work independently and possess a minimum GPA of 2.50.

NS

NSC 310. NAVAL OPERATIONS
CLASS HOURS: 3, CREDIT: 4

Prerequisite: NSC 200, U.S. citizenship

Co-requisite: NSC 310L

This course covers operations topics including naval communications systems, sonar-radar search techniques, formations, and screening theory. Tactical formations and dispositions, relative motion, maneuvering board, and tactical plots are analyzed for force effectiveness and unity. It provides an introduction to the theory and principles of operation of naval weapons systems, including coverage on the capabilities and limitations of weapons and fire control systems. The theory of target acquisition, identification and tracking, trajectory principles, and basics of naval ordinance is presented. The course is required for all Naval Science minors and recommended for those students pursuing a Naval Reserve commission.

NS

NSC 310L. NAVAL OPERATIONS LAB
LAB HOURS: 2, CREDIT: 0

Co-requisite: NSC 310

NS

NSC 315. NAVIGATION (FOR ENGINEERS)
CLASS HOURS: 3, CREDIT: 4

Prerequisite: NSC 100

Co-requisite: NSC 315L

A comprehensive study of the theory, principles, and procedures of terrestrial and celestial navigation, movements, and employment, with an emphasis on naval applications and examples. Navigation topics include piloting, dead reckoning, radar navigation, and celestial theory. Practical work involving sight reduction, sextants, publications, and report logs. Rules of the road, lights, signals, and navigational aids, including inertial systems, are also covered. The course is required for engineering students pursuing a Naval Science minor.

NS

NSC 315L. NAVIGATION LAB (FOR ENGINEERS)
LAB HOURS: 2, CREDIT: 0

Co-requisite: NSC 315

NS

NSC 385. STUDY ABROAD ELECTIVE

NS

NSC 390. INDEPENDENT STUDY

NS

NSC 395. SPECIAL TOPICS

NS

NSC 400. LEADERSHIP, ETHICS, AND NAVAL SCIENCE FOR THE MERCHANT MARINE RESERVIST II**CLASS HOURS: 4, CREDIT: 4****Prerequisite: NSC 200 or approval of Chair**

This course provides midshipmen with the practical knowledge, leadership, and managerial skills necessary to function as a new naval reserve officer. Topics include merchant marine reserve, officer and enlisted rank structure, administrative duties of an officer, the naval justice system, management techniques, promotions, leadership, ethics, fitness reports and annual training (AT) requirement and procedures.

NS**NSC 450. ADVANCED MIDSHIPMAN NAVAL TRAINING****CREDIT: 1****Prerequisite: MMR Midshipman under Contract (Naval Science Department Chair approval required)**

An intensive training opportunity for midshipmen desiring to increase their practical knowledge of the US Navy's mission. It provides fundamental, intermediate, and upper level leadership experience through practical application of leadership management techniques. Students perform in a variety of billets. Eligible cadets are chosen to participate in NSC 450 according to their performance, aptitude, and warfare community interest. Training opportunities include field trips to surface, subsurface, aviation, and special operations units; close order drill; inspections; and naval officer career areas. Naval Science department chair approval required. May be used to satisfy open elective requirements.

NS | Graded: Credit/No Credit**PERFORMING ARTS****PA 185. STUDY ABROAD ELECTIVE**
CC**PA 385. STUDY ABROAD ELECTIVE**
CC**PA 390. INDEPENDENT STUDY**
CC**PA 395. SPECIAL TOPICS**
CC

PHYSICAL EDUCATION AND ATHLETICS

PE 100. BEGINNING/INTERMEDIATE SWIMMING

LAB HOURS: 2, CREDIT: ½

Individual instruction for everyone, from beginning swimmers who need help in learning basic fundamentals and techniques, to intermediate swimmers who want to improve their swimming technique and conditioning.

ATH | Graded: Credit/No Credit

PE 111. SPORTS CONDITIONING

LAB HOURS: 2, CREDIT: 1

A total body cardiovascular workout designed to condition and cross train athletes during the off-season. This is an intermediate-level fitness class.

ATH | Graded: Credit/No Credit

PE 114. WEIGHT MANAGEMENT THROUGH EXERCISE

LAB HOURS: 2, CREDIT: 1

This course begins with a fitness evaluation and body composition test (lean muscle vs. fat tissue percentage). Through exercise and healthy nutrition the student learns how to change his or her body composition and promote an overall feeling of wellness. The student also learns how aerobic conditioning and weight training work to burn excess calories and why diets may not be the solution to excess weight. The class includes an aerobic exercise session.

ATH | Graded: Credit/No Credit

PE 120. WEIGHT TRAINING

LAB HOURS: 2, CREDIT: 1

This course uses weight and circuit training to assist the student in developing endurance, strength, and flexibility through programs that can be adopted for bodybuilding or specific fitness for individual sports. Recommended as an off-season conditioning program for intercollegiate athletes.

ATH | Graded: Credit/No Credit

PE 125. MARTIAL ARTS

LAB HOURS: 3, CREDIT: 1

A rigorous martial arts program designed to create discipline, flexibility, and fitness while teaching the fundamentals and techniques of Karate. Students can earn belt ranks.

ATH | Graded: Credit/No Credit

PE 135. DRILL TEAM AND COLOR GUARD

LAB HOURS: 2, CREDIT: 1

Team members routinely represent Cal Maritime at parades and other ceremonies.

ATH | Graded: Credit/No Credit

PE 160. BEGINNING SAILING – BASIC KEELBOAT

LAB HOURS: 2, CREDIT: 1

This course provides both classroom and practical instruction in sailing theory and skills. Students will learn to skipper and crew a day-sailing keelboat in familiar waters with light to moderate wind and sea conditions. Also included is instruction in how to use Tide and Current Tables and file a Float Plan.

ATH | Graded: Credit/No Credit

PE 165. SAIL TRAINING FOR THE MERCHANT MARINE RESERVE

CLASS HOURS: 1, LAB HOURS: 2, CREDIT: 2

Co-requisite: NSC 100, NSC 450

This course is designed to meet or exceed the requirements of Navy Sailing Skipper "B" Qualification for Naval Officers Candidates, Navy Personnel and/or Active Duty Reserve Naval Personnel who desire sail training. Also included is instruction in how to use Tide and Current Tables and file a Float Plan.

ATH | Graded: Credit/No Credit

PE 185. STUDY ABROAD ELECTIVE

ATH

PE 260. INTERMEDIATE SAILING**LAB HOURS: 2, CREDIT: 1****Prerequisite: PE 160 or Consent of instructor**

This course covers advanced practical instruction on sailing theory and the skills to skipper single-handed a day sailing keelboat in familiar waters in light to moderate wind and sea conditions. Further training on use of Tide and Current Tables and the proper filing of a Float Plan.

ATH | Graded: Credit/No Credit**PE 385. STUDY ABROAD ELECTIVE****ATH****PE 390. INDEPENDENT STUDY****ATH****PE 395. SPECIAL TOPICS****ATH****INTERCOLLEGIATE SPORTS**

Students are required to register in the appropriate sport and fill out the necessary medical forms prior to participation. All student athletes are required to maintain a minimum over-all cumulative GPA of 2.0. Participation is subject to the approval of the coach.

PE 210. INTERCOLLEGIATE SOCCER**CREDIT: 1**

Practice begins on the first day of school, and the season ends in mid November. Practices are from 4:30-6:30 PM daily.

ATH | Graded: Credit/No Credit**PE 225. INTERCOLLEGIATE WATER POLO (MEN)****CREDIT: 1**

Practice begins on the first day of school, and the season ends in mid November. Practices are from 4:30-6:30 PM daily.

ATH | Graded: Credit/No Credit**PE 226. INTERCOLLEGIATE WATER POLO (WOMEN)****CREDIT: 1**

Practice begins on the first day of school, and the season ends in mid November. Practices are from 4:30-6:30 PM daily.

ATH | Graded: Credit/No Credit**PE 230. INTERCOLLEGIATE SAILING****CREDIT: 1**

Practice begins on the first day of school of each semester. Practices are normally from 4:30-6:30 PM daily.

ATH | Graded: Credit/No Credit

**PE 235. INTERCOLLEGIATE CREW
(MEN)
CREDIT: 1**

Practice begins on the first day of school of each semester. Practices are normally from 4:30-6:30 PM daily.

ATH | Graded: Credit/No Credit

**PE 236. INTERCOLLEGIATE CREW
(WOMEN)
CREDIT: 1**

Practice begins on the first day of school of each semester. Practices are normally from 4:30-6:30 PM daily.

ATH | Graded: Credit/No Credit

**PE 240. INTERCOLLEGIATE BASKETBALL
(MEN)
CREDIT: 1**

Practice begins in early October, and the season continues into February. Practices are normally from 4:30-6:30 PM daily.

ATH | Graded: Credit/No Credit

**PE 241. INTERCOLLEGIATE BASKETBALL
(WOMEN)
CREDIT: 1**

Practice begins in early October, and the season continues into February. Practices are normally from 4:30-6:30 PM daily.

ATH | Graded: Credit/No Credit

**PE 250. INTERCOLLEGIATE GOLF
CREDIT: 1**

Practices are by arrangement and begin in mid-September through November in the fall and from mid-January through March in the spring.

ATH | Graded: Credit/No Credit

**PE 255. RUGBY
CREDIT: 1**

Practices begin in early October and continue through November in the fall and from early January through March in the spring.

ATH | Graded: Credit/No Credit

**PE 270. INTERCOLLEGIATE CROSS COUNTRY
(WOMEN)
CREDIT: 1**

Intercollegiate cross country running is a sport which takes place outside on terrains of different lay-outs and complexities. The NAIA courses are 5 kilometers for the women and 8 kilometers for the men. Practices are daily with meets scheduled on the weekends. All athletes must pass a complete physical and must be certified by the Play NAIA player eligibility center. Practices include strength training, plyometrics, core conditioning, interval training and long distance running. Practices will be held on Bodnar Field track and at select off campus locations. All intercollegiate athletes are expected to participate in all practices and competitions. Athletes are also required to sign a contract acknowledging specific rules including their time commitment and school representation.

ATH | Graded: Credit/No Credit

**PE 271. INTERCOLLEGIATE CROSS COUNTRY
(MEN)
CREDIT: 1**

Intercollegiate cross country running is a sport which takes place outside on terrains of different lay-outs and complexities. The NAIA courses are 5 kilometers for the women and 8 kilometers for the men. Practices are daily with meets scheduled on the weekends. All athletes must pass a complete physical and must be certified by the Play NAIA player eligibility center. Practices include strength training, plyometrics, core conditioning, interval training and long distance running. Practices will be held on Bodnar Field track and at select off campus locations. All intercollegiate athletes are expected to participate in all practices and competitions. Athletes are required to sign a contract acknowledging specific rules including their time commitment and school representation.

ATH | Graded: Credit/No Credit

PHYSICS

PHY 100. PHYSICS I

CLASS HOURS: 3, CREDIT: 3

Prerequisite: MTH 100

Co-requisite: PHY 100L

This course introduces fundamental principles and problem solving in kinematics and dynamics, statics, rotational motion, work, energy, elasticity, wave motion, properties of solids, fluids and gases, and heat.

SM

PHY 100L. PHYSICS I LAB

LAB HOURS: 2, CREDIT: 1

Prerequisite: MTH 100

Co-requisite: PHY 100

A laboratory course designed to enhance the conceptual learning of physics by adding visual and tactile components through hands-on experience. The course covers experiments based on the theory provided in PHY 100. Topics include the study of vectors, kinematics and dynamics, forces and the equations of motion, Newton's laws, uniform circular motion, work-energy, impulse and momentum, gravitation, simple harmonic motion, buoyancy, heat and thermodynamics.

SM

PHY 105. PHYSICS II

CLASS HOURS: 4, CREDIT: 4

Prerequisite: PHY 100

This course introduces fundamental principles and problem solving in electrostatics, direct and alternating currents, electromagnetism, optics, quantum physics and nuclear processes.

SM

PHY 185. STUDY ABROAD ELECTIVE

SM

PHY 200. ENGINEERING PHYSICS I

CLASS HOURS: 3, CREDIT: 3

Prerequisite: MTH 210

Co-requisite: PHY 200L

This course covers forces, torques, and static equilibrium; constant, accelerated, and periodic linear and rotational dynamics; gravity; fluid statics and dynamics; elasticity; temperature, thermal expansion, and heat transfer.

SM

PHY 200L. ENGINEERING PHYSICS I LAB

LAB HOURS: 2, CREDIT: 1

Prerequisite: MTH 210

Co-requisite: PHY 200

A lab course designed to enhance conceptual learning by adding a hands-on-learning component. The course covers experiments based on the theory provided in PHY 200, including the study of forces, torques and static equilibrium; constant, accelerated, periodic, linear and rotational dynamics; gravity; fluid statics and dynamics; elasticity; temperature, thermal expansion and heat transfer.

SM

PHY 205. ENGINEERING PHYSICS II

CLASS HOURS: 4, CREDIT: 4

Prerequisite: MTH 211, PHY 200

This course covers the laws of thermodynamics and the thermodynamics process, electrostatic and electromagnetic fields and forces, electric potential, capacitance, resistance and inductance, direct current circuits and instruments, R-L-C exponential circuits, alternating current circuits, and electromagnetic waves.

SM

PHY 385. STUDY ABROAD ELECTIVE

SM

PHY 390. INDEPENDENT STUDY

SM

PHY 395. SPECIAL TOPICS

SM

TRANSPORTATION**TRA 185. STUDY ABROAD ELECTIVE****MPM****TRA 300. TRANSPORTATION CARRIER MANAGEMENT****CLASS HOURS: 3, CREDIT: 3****Prerequisite: ECO 100**

This course introduces the student to the field of transportation management with an emphasis on basic economic principles, and efficient and cost-effective systems. Each of the five traditional modes of transportation are examined in the contexts of culture, economics, politics, and specific mode system characteristics. Attention is given to a new, sixth mode of transportation: electronic transmission.

MPM**TRA 305. MARITIME POLICY SEMINAR****CLASS HOURS: 3, CREDIT: 3****Prerequisite: NAU 103 or TRA 300**

This course explores US and major global shipping nations' maritime policy, with special emphasis on past and present maritime legislation, as well as foreign competition, unions, maritime wages, cargo preference, and government ship and route subsidies. International policies and regulations, including emerging security and safety regimes, are discussed.

MPM**TRA 310. MARINE CHARTERING AND INSURANCE****CLASS HOURS: 2, CREDIT: 2****Prerequisite: Junior Class Standing or Approval of Instructor and Department Chair**

This course covers the scope of major markets, trade terminology, function of ship owners, operators, charterers, brokers, and the terms and conditions of the most widely used charter parties for both dry and liquid cargo carriage. Topics also include voyage charters, contracts of affreightment, time charters, bareboat charters and resolution of disputes. Effective management of time-chartered ships is covered, along with a familiarization in the basic concepts of marine insurance contracts.

MPM**TRA 385. STUDY ABROAD ELECTIVE****MPM****TRA 390. INDEPENDENT STUDY****MPM****TRA 395. SPECIAL TOPICS****MPM****TRA 400. TRANSPORTATION OF HAZARDOUS MATERIALS****CLASS HOURS: 3, CREDIT: 3****Prerequisite: None**

Students investigate the chemistry of hazardous materials, regulations for their transportation by water, rail, truck, or air, packaging, container specifications, blocking and bracing, marking of shipments, and safety measures. Students also address security of shipments, from a regulatory, operational, and global business perspective.

MPM

TRA 405. IMPORT AND EXPORT REGULATIONS**CLASS HOURS: 3, CREDIT: 3****Prerequisite: BUS 300**

An overview of outsourcing and the process of importing and exporting goods or services, emphasizing the perspective of an entrepreneur starting an import/export business. Students investigate the nomenclature, procedures, and practices, including pricing, documentation and actions of key players. Topics include theories of trade, globalization, outsourcing and the make-buy decision, intermediaries, and risk management. Students create a portfolio, which may either independently or, in some cases, with a team.

MPM**TRA 410. NATIONAL AND STATE TRANSPORTATION POLICIES****CLASS HOURS: 3, CREDIT: 3****Prerequisite: NAU 103 or TRA 300**

This course covers transportation and physical distribution in terms of public interest, administration of controls, subsidization, and procedures before various associations, study groups, and executive and regulatory bodies.

MPM

THE GRADUATE PROGRAM

MASTER OF SCIENCE IN TRANSPORTATION AND ENGINEERING MANAGEMENT

THE GRADUATE PROGRAM

MASTER OF SCIENCE IN TRANSPORTATION AND ENGINEERING MANAGEMENT

Cal Maritime is committed to the development of outstanding industry leaders through a graduate degree program that requires students to integrate critical thinking and best practices in a manner that enables them to face real-world challenges with poise, and to contribute to the body of knowledge and practice in their industry.

Cal Maritime's office of Graduate Studies, a division of the department of Sponsored Projects and Extended Learning, offers a Master of Science degree in Transportation and Engineering Management, with areas of specialization in Transportation Management, Engineering Management, and Humanitarian Disaster Management.

The office of Graduate Studies administers the policies and procedures established by Cal Maritime and the California State University. This catalog section presents these policies and procedures as related to graduate students in Cal Maritime's graduate degree program.

ACCREDITATION

Cal Maritime is accredited by the Western Association of Schools and Colleges (WASC) 985 Atlantic Avenue, Suite 100, Alameda, CA 94501, 510-748-9001

www.wascsenior.org.

GRADUATE PROGRAM ADMISSION REQUIREMENTS, FEES, AND POLICIES

ADMISSION REQUIREMENTS

The requirements for admission to undertake graduate studies at a California State University campus are in accordance with university regulations and with the California Code of Regulations Title 5, Chapter 1, Subchapter 3. Specifically, a student shall, at the time of enrollment:

- Have completed a four-year college course of study and hold an acceptable baccalaureate degree, the equivalent of a four-year U.S. bachelor's degree, from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate campus authorities
 - Be in good academic standing at the last college or university attended
 - Have attained a GPA of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) units attempted, or have earned a GPA of at least 2.5 on the last degree completed by the candidate
 - Satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, as evidenced by:
 - Minimum of five (5) years of professional experience beyond the bachelor's degree, at least three (3) of which must be at a supervisory or managerial level. This work experience must be full-time, with written evidence documenting its nature and duration
- OR**
- Adequate performance on the Graduate Record Examination (GRE) General Test or the Graduate Management Admissions Test (GMAT), either of which may be substituted for the above professional experience requirements
 - Evidence of English language proficiency may be required of English as Secondary Language students

In unusual circumstances, exceptions may be made to these criteria at the discretion of the Dean of Graduate Studies.

These and other CSU admissions requirements are subject to change as policies are revised and laws are amended. The CSU website www.calstate.edu is a good source of the most up-to-date information.

The following items are required for an application to be considered complete:

- Application for admission. The application can be downloaded from www.csum.edu/web/industry/graduate-studies/forms
- \$55 non-refundable application fee. Checks should be made payable to California State University, Maritime Academy. Cash and credit cards are also accepted
- One original copy each of official transcripts from all colleges, universities, military training, and vocational training attended other than Cal Maritime.

As evidence of readiness for graduate studies, submit one of the following:

- Official test results on the Graduate Management Admission Test (GMAT) or the Graduate Record Examination (GRE) General Test. These tests are administered at test centers through out the world. To register for the GRE visit:
<http://www.ets.org/gre>
To register for the GMAT visit:
<http://www.mba.com>
OR
- Two letters of recommendation demonstrating a minimum of five (5) successful years of professional experience beyond the bachelor's degree, at least three (3) of which must be at a supervisory or managerial level. These letters should come from supervisors and business associates who can discuss knowledgeably your leadership, management, and academic abilities

The completed application, the non-refundable \$55 application fee, and all supporting documents must be mailed to:

Office of Graduate Studies
The California Maritime Academy
200 Maritime Academy Drive
Vallejo, CA 94590-8181

FEES AND PAYMENT SCHEDULE

The total student cost for the 5-semester program is \$27,000, and includes all fees and expenses. This fixed price is guaranteed provided the student stays on track and completes the degree within the expected time frame.

An initial \$1,000 non-refundable security deposit will be required to secure a space once a student has been admitted. That amount will be subtracted from the total program cost, leaving a \$26,000 balance. That remaining amount is divided into 5 equal payments of \$5,200 each. Payments will be due before the beginning of each semester.

In the event that a student withdraws, semester fees are non-refundable once a student has logged into that semester's course or courses.

Federal loans and other programs have been identified and set up for students making an application. Employers may also assist students with the cost of the program. Students should contact Cal Maritime's Financial Aid department, or their employers for more information.

PROGRAM POLICIES AND EXPECTATIONS

SATISFACTORY ACADEMIC PROGRESS

Students admitted to graduate programs are expected to make systematic and successful progress towards the completion of their programs. The following policies are designed to assist the student in that endeavor.

Students must take the prescribed number and sequence of courses for their area of specialization. Students' work must give evidence of graduate level writing proficiency.

A GPA of 3.0 or better must be achieved in all courses taken, and it must be maintained to satisfy the requirements of the degree per CSU's Master's degree requirements policy. This standard applies to all graduate students, including candidates in graduate-level certificate programs. A student is considered to be in probationary status, and subject to dismissal, if the cumulative scholarship in all work attempted in graduate status falls below a B (3.0), or if the student's work in any two consecutive terms falls below a B (3.0) average. The Dean of Graduate Studies determines a student's eligibility to continue in the program if he or she has been placed on academic probation. If allowed to continue in probationary status, the student is required to make steady progress toward improvement in scholarship.

GRADING SYSTEM

Students' work is graded using the A - F system. GPA computations are made as follows: A=4.0, B=3.0, C=2.0, D=1.0, and F=0.0. Course syllabi include a discussion of each individual instructor's grading policy and how it applies to their particular course. In cases where the assigned letter grade is modified by a + or - suffix, the resulting numeric grade will reflect the appropriate fractional adjustment in the GPA.

ACADEMIC PROBATION

A graduate student will be placed on academic probation when the student's GPA falls below 3.0 in any given semester. Consistent with guidelines issued by the Chancellor of The California State University, a graduate student may also be placed on probation for repeated withdrawal from the program, failure to progress toward an educational objective, and for noncompliance with the graduate department's program requirements.

A student placed on academic probation will be notified in writing via letter or e-mail. This notification will include the conditions that must be met to be removed from academic probation, and the circumstances which may lead to disqualification. Students shall be removed from academic probation once they have met the terms and conditions established in the Notification of Academic Probation letter, and their cumulative graduate GPA reaches at least 3.0 or higher. Students not meeting those terms and conditions within the specified time frame will be suspended or disqualified from continuing in the program.

ACADEMIC SUSPENSION AND REMOVAL FROM THE PROGRAM

Students who are subject to academic probation and fail to meet the conditions established by their terms of probation in the Notification of Academic Probation within the specified period of time will be subject to academic suspension and/or academic disqualification from the program. A student placed on academic suspension or disqualification from the program will be notified in writing via letter or e-mail and will be provided with the reasons which led to their disqualification.

REINSTATEMENT

In order to be considered for reinstatement, a disqualified student must demonstrate academic ability by completing conditions determined by the Dean of Graduate Studies. The student may then petition the office of Graduate Studies for reinstatement. The student must submit the petition for reinstatement no later than three weeks before the start of the semester in which the student intends to return. The office of Graduate Studies will only consider petitions for reinstatement from students who have remained outside the university for at least one full (Fall, Spring or Summer) semester after their dismissal. Students who are disqualified, then reinstated, and who become disqualified a second time, will not be granted a second reinstatement.

LEAVE OF ABSENCE

Students called to or engaged in public service for reasons beyond their control will not lose registration priority, academic credit, fees, or degree status. Such activities may include military service, fire fighting, or public security. To accommodate such students, Cal Maritime will accept withdrawals at any point throughout the semester. Students may be granted an extended leave of absence for up to two years for engagement in public service beyond their control. If currently enrolled, they must file a leave-of-absence form with the office of Graduate Studies.

An approved leave-of-absence will ensure that they retain their catalog rights and that they can register for subsequent terms without reapplying for admission.

The federal government determines possible student loan grace and deferment provisions based on the circumstances of involvement in a particular public service. Should the federal government modify its regulations governing various loan programs, Cal Maritime will adopt those modifications for its students.

ENROLLMENT IN THE CAPSTONE COURSE

In order to enroll in the graduate program's Capstone course, students must have completed all required courses in the program with passing grades, and they must have resolved any outstanding Incomplete grades. Students who are on academic probation or who have an unresolved Incomplete grade in any course may not pursue the Capstone course without prior written approval from the Dean of Graduate Studies.

PROCEDURE FOR AN UNQUALIFIED STUDENT TO PETITION FOR PERMISSION TO ENROLL IN THE CAPSTONE COURSE

Permission for an unqualified student to enroll in the Capstone course may be granted in the rare occasion that a student has only one outstanding course to retake or one outstanding Incomplete to resolve. The student must demonstrate the ability to successfully resolve outstanding issues within a stated period of time through the submission of an approved action plan. The period allowed may not exceed the period of time necessary for completion of the Capstone project. The student must pay full tuition for the semester(s) during which this resolution is addressed, and will not be eligible to pay the lower continuous enrollment fee.

CONTINUOUS ENROLLMENT

Unless granted a formal leave-of-absence, graduate students are expected to register for every semester from their initial enrollment through the completion of their program, including the semester in which their degree or certificate is to be awarded. Students who have taken the Capstone course and whose project is either not filed or not approved by the end of the Capstone course are required to remain continuously enrolled (including the Summer semester) until the project is completed and approved.

QUALIFYING FOR THE CONTINUOUS ENROLLMENT FEE

If a student has completed all requirements for a degree except the filing and/or approval of the Capstone project, the student may be eligible to pay a continuous enrollment fee for the following semester instead of registering at the full semester fee rate. This exception may apply to no more than the semester immediately following the semester during which the student was enrolled in the Capstone course.

Four conditions must be satisfied for the student to be eligible for this fee:

- All formal requirements for the degree except for filing and/or approval of the finished Capstone project must be completed before the first day of the semester for which the continuous enrollment fee is being requested
- From the last day of the previous qualifying semester and up to the first day of the semester for which the continuous enrollment fee is being sought, the combined use of Cal Maritime faculty and staff time must not exceed 12 hours
- For the approval of the Capstone project the student's Capstone Committee has suggested only stylistic or typographical changes in the Capstone project, rather than a change of the project itself
- The student must have been enrolled at the full semester fee during the qualifying semester

PROCEDURE FOR STUDENT TO ESTABLISH ELIGIBILITY TO PAY THE CONTINUOUS ENROLLMENT FEE

The student must complete a continuous enrollment fee application which all members of his or her Capstone Committee must sign to certify that the four qualifying conditions have been met. Forms for this purpose are available at the office of Graduate Studies.

The student should submit the completed form to the office of Graduate Studies for approval. If the Dean of Graduate Studies approves the continuous enrollment fee application, the student will be billed for the amount of the continuous enrollment fee rather than at the full semester rate. Otherwise, the full semester fee will be charged.

IMPORTANT NOTES REGARDING CONTINUOUS ENROLLMENT

Students paying the continuous enrollment fee are not eligible for the services normally available to regularly registered students. They are limited to the use of the library and e-mail resources, and the attention of the Capstone Committee members as necessary for consultation and final approval of the Capstone project. If, after paying the continuous enrollment fee in any one semester, a student should find it necessary to use the educational facilities of the university in any way other than within the limits described above, then the student must resume registration at the full enrollment fee rate. If this should occur during a semester in which the student has already paid the continuous enrollment fee, the student will be billed for the balance of the full semester fees.

In addition:

- A student may not use the continuous enrollment fee for the purpose of taking coursework of any kind
- A student paying the continuous enrollment fee is not considered to be enrolled for the purpose of deferring student loans, and is not guaranteed eligibility for financial aid
- The continuous enrollment fee will not be refunded if the Capstone project is not filed or approved

In as much as the semester of continuous enrollment does not bear academic credit, it will not appear on a student's transcript.

STANDARDS OF INTEGRITY AND CIVILITY

Cal Maritime enforces its regulations that forbid cheating, plagiarism, and other forms of inappropriate and unethical academic conduct. Students found guilty of these inappropriate actions will not be permitted to continue in the Graduate Program. Conduct within the online environment as exemplified by postings in the course discussion forums and email communication is expected to exhibit a level of courtesy consistent with a professional interchange.

ELIGIBILITY FOR A MASTER'S DEGREE

To be eligible for the Master's degree, the candidate shall meet the following minimum requirements:

- The successful completion of the specified course of study approved by the Curriculum Committee at Cal Maritime consisting of thirty semester units of graduate work. An overall minimum GPA of 3.0 (B) is required
- Satisfactory completion of a Capstone project. No more than two semesters shall be allowed for the Capstone project

COMMENCEMENT PARTICIPATION

In order to participate in the Spring commencement ceremony, students must have successfully completed all degree requirements and fulfilled all financial obligations to Cal Maritime. In limited situations, students whose Capstone project will be accepted and approved in the Summer semester immediately following commencement may be eligible to participate in the commencement ceremony as a "Walk Only" candidate with prior written approval from the Dean of Graduate Studies to participate as such. Under no circumstances will a student who has outstanding financial obligations to Cal Maritime be permitted to participate in commencement.

PROCEDURE FOR AN UNQUALIFIED STUDENT TO PARTICIPATE IN COMMENCEMENT

Students who will complete their degree requirements by completing the Capstone project in the summer semester following commencement may be eligible to participate in the May commencement ceremony as a "Walk Only" candidate provided they file a Declaration of Intent to Graduate form showing project approval as achievable by the August immediately following commencement. The Declaration of Intent to Graduate form must be approved by the student's Capstone Committee and the Dean of Graduate Studies.

GRADUATE PROGRAM GENERAL POLICIES

Where no separate policy for graduate students is stated, the equivalent policy for Cal Maritime undergraduate students prevails. A clear understanding of program requirements and procedures as outlined in the Cal Maritime Catalog and at www.csum.edu/grad will guide the student and will help avoid final semester problems and graduation delays. It is ultimately the graduate student's responsibility to be aware of all academic requirements and administrative deadlines of the program.

GRADUATE PROGRAM CURRICULUM

Students enroll in one of three areas of specialization. The choices include Transportation, Engineering Management, and Humanitarian Disaster Management. Before taking courses in their area of specialization students will complete 5 courses in a core management curriculum. They will then complete 4 courses in their area of specialization. The final course, the Capstone course, will give students the opportunity to demonstrate their learning through an extensive project. Successful completion of the 10 courses is required to earn the degree.

FORMAT

The Graduate Program is offered in a fully-online asynchronous format using the Moodle platform. It is expected that the online graduate student will fully participate in the various aspects of this distance-learning program, such as reading and working extensively on his or her own and using the internet to communicate about their learning. Discussion forums, papers, presentations, and exams are used to evaluate student progress. Students will also be required to participate in web conferences, chat forums, and other group activities on the internet. It is the student's responsibility to be able to use these tools effectively. The Graduate Program website features tutorials and written instruction on using the features of the internet course delivery platform used for this program. Students also have access to IT personnel for support and guidance.

Online instruction is available to the student 24/7 during the semesters in which he or she is enrolled. Participation is measured through the completion of assignments, through postings in discussion forums, and as otherwise specified in individual course syllabi.

COHORT MODEL

The program is laid out in a sequential manner, with each course building on the one before it. Students proceed through the courses as a cohort, and belong to the same group throughout the duration of the program. The cohort model has been proven to be particularly effective for learning in an online environment. For this reason, each cohort begins together in the Fall semester, and completes the five semesters together.

COURSE DESCRIPTIONS

CORE COURSES

Students complete all the core courses except MSTEM 900 Capstone before beginning coursework in their area of specialization.

TEM 500: PROJECT MANAGEMENT

Students understand and gain experience in using modern methods and practices for managing projects from small to extremely extensive. Students work individually and in teams to experience managing a project, analyze case studies on specific topics in the field, and practice problem solving using the important concepts, methods and software for scheduling and resource management. Topics include: Organizing and managing projects; selection of alternate projects using financial viability, suitability of the end product, time of delivery, and quality as criteria; defining scope; scheduling and resource management; budgeting and control; ending projects and learning from them for the future. Examples will be drawn from operations such as engineering and supply chains, including a maritime link.

TEM 510: INTERNATIONAL TRANSPORTATION ECONOMICS

Students learn to apply microeconomic principles, especially in the field of freight transportation, with special attention to international transport and maritime-related scenarios. Students use classical- and behavioral-microeconomic methods and practices to illuminate the management of enterprises and assets in transportation markets, as well as in their global settings and in the presence of external influences such as regulation and political and social concerns. Students work individually and in teams to analyze case studies on specific topics in the field, and practice issue diagnosis and explanation using the important concepts and methods covered. Topics include: Modern theories of transport supply and demand, the firm and costs, industrial organization in markets, externalities, regulation, and models of social welfare. Examples will be drawn primarily from freight transportation scenarios, including a maritime link.

TEM 520: ORGANIZATIONAL BEHAVIOR AND MANAGEMENT

Students explore transitions and trends in the environment of contemporary global business processes and activities. The main focus is the human resources channel of the supply chain, including the primary functions of recruiting, training, and work force maintenance. Within this primary focus, control mechanisms (such as protection of the confidentiality of employee records), labor relations, leadership, organizing, and planning are addressed. Case examples in the maritime and logistics industry will frequently be referenced to enhance course objectives.

TEM 530: FINANCIAL MANAGEMENT

Students study the principles of finance at the level of the business unit. They will learn the core fundamentals, concepts and techniques of finance. Topics include security valuation, time value of money, financial statement analysis, capital budgeting, and working capital management. Students will gain an appreciation of the capital markets and application to real world investing.

TEM 540: INFORMATION SYSTEMS

Students learn elementary systems analysis principles, and investigate the structure and operations of large, complex modern computer networks. Students survey the major systems used for decision making and data management in international logistics and engineering oriented concerns, and obtain a working knowledge of the functions and data required for each, and how the pieces fit together into a strategy for getting the right information to the right decision maker at the right time. Special emphasis placed on systems particularly important in transportation, logistics, and maritime related firms, and those important in supply chain command and control. Students also learn how to participate in or lead a system design and implementation project.

TEM 900: CAPSTONE

(To be taken upon the successful completion of all other courses)

Students scope, develop, plan and execute an in-depth practical project to deliver value in transportation management, engineering management or humanitarian/disaster management, usually for an organization familiar to them. They work in consultation with the course instructor, and other faculty and representatives as appropriate, in a committee selected by the student and instructor. Using knowledge acquired in the program, they devise and present workable solutions to resolve problems in their respective target enterprise.

AREAS OF CONCENTRATION

TRANSPORTATION

TEM 600: GLOBAL LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Logistics is the science of movement of materials from raw material to the customer in the globalized economy. Supply chain management focuses on understanding techniques and strategic issues in the successful movement of products from their origins as raw materials to their final destinations as finished products, including the impact of culture, strategic planning, organization, and management control. Specific topics include customer service, e-commerce, facilities location, routing and pricing, storage, transportation, emerging technologies, and re-engineering the supply chain. Emphasis will be placed throughout on the maritime component, with frequent use of case studies.

TEM 610: INTERNATIONAL TRANSPORTATION LAW

Explores legal issues in transportation, logistics and supply chain management in a globalized economy. Topics include freight charges liability; loss, damage and delay claims, billing disputes, over-charge and undercharge claims; bills of lading; freight classification system; cargo insurance; applicable international legal treaties and conventions; and the current state of international transportation law.

TEM 620: INTERNATIONAL TRADE AND FINANCE

A focus on trade and finance in a globalized economy. Trade topics include the current structure of the international trading system, global trade treaties and agreements, and the impact of e-commerce on traditional trade constructs. Financial topics include raising capital in the global economy, the management of investment and exchange risk, and global financial treaties and agreements.

TEM 630: PORT AND TERMINAL MANAGEMENT

An advanced course dealing with modern port and terminal operations, including logistics processes such as on-dock rail, strategic and tactical planning, harbor drayage, terminal gate protocols, equipment and cargo management, and integration of marine port and terminal operations with other modes of transportation. The student will gain an introduction to several different types of marine terminals, including containerized liner facilities, dry bulk, and liquid bulk facilities, ro-ro terminals, among others.

ENGINEERING MANAGEMENT

TEM 700: SYSTEMS ENGINEERING MANAGEMENT

Introduces students to the principles and processes of systems engineering, from concept development through system integration, testing and life cycle support. The course explores a disciplined approach to identifying user needs, translating those needs into a complete system specification, and verifying that requirements are met. A team project related to deployment of a large-scale complex system is used to demonstrate the integrated nature of systems engineering.

TEM 705: STRATEGIC MANAGEMENT

Topics include the managing and resolution of complex problems in engineering management; the process of crafting strategy; evaluating a company's external environment, resources and competitive position; integration and outsourcing; diversification, acquisitions and new ventures; competing in foreign markets; strategy, ethics, and social responsibility; and effective strategy execution.

TEM 710: TECHNOLOGY MANAGEMENT

Focuses on managing advanced technology in industry. Topics include: human factors; quality control; reliability and maintainability; integrated logistic support; sales and marketing for engineers; legal issues and entrepreneurship; and managing risk.

TEM 720: ENERGY RESOURCE MANAGEMENT

Course participants will learn the background knowledge, concepts, and management techniques necessary to create and sustain an effective energy management program within their organization, resulting in an efficient use of energy to maximize profit and minimize cost. This course will examine supply side cost structures, auditing of energy demand, strategies to reduce energy costs, energy efficient technologies, and economic analysis of energy efficiency upgrades for decision making.

HUMANITARIAN/DISASTER MANAGEMENT**TEM 800: THE GLOBAL HUMANITARIAN SYSTEM**

This course considers in greater depth the humanitarian system as a whole and the resulting tensions. It compares and contrasts the actions and activities with those found in the commercial and military counterparts that will be found operating alongside the humanitarian logistic network, and focuses on the issue of the development and maintenance of inter-personal and inter-organizational trust as a critical success factor within the post-disaster response.

TEM 810: RAPID AND SLOW ONSET DISASTER MANAGEMENT

This course underpins the humanitarian logistics track through an introduction to the disaster response cycle and a high level discussion of the key stakeholders. It considers the role of the humanitarian logistician and discusses five of the most significant challenges facing those working in this field.

TEM 820: HUMANITARIAN PROJECT MANAGEMENT

On the basis that the whole area of the preparation and response to a natural disaster falls into the Rittel and Webber's categorization of a "wicked problem", based on academic approaches to the taming of such problems, this course will consider alternate ways of managing the humanitarian logistic challenge. These will be drawn from a number of fields including those of project management and procurement as well as the area of general management.

TEM 830: NATIONAL AND INTERNATIONAL HUMANITARIAN LOGISTICS

It is recognized that there are significant differences in the philosophical approach, and consequential policies, processes and procedures adopted by different countries in their preparation and response to national and international disasters. The aim of this course is to consider the differences in such approaches, the implications for international cooperation, and the extent to which best practice can be synthesized.

CALENDAR

There are three semesters a year in the graduate degree program: Fall, Spring and Summer. These semesters conform with the undergraduate program's 15-week Fall and Spring semesters as designated on the campus academic calendar and posted online at www.csum.edu/web/faculty-and-staff/academic-calendar. A 10-week Summer semester is scheduled during the months between the Fall and Spring semesters.

STUDENT SUPPORT SERVICES

TRAINING SHIP GOLDEN BEAR

The office of Marine Programs manages all shipboard and waterfront assets and oversees much of what makes Cal Maritime a unique learning environment. Cadets receive specialized training on Cal Maritime's fleet of workboats, tugboats and T-boats during the academic year. The cadets also receive training in water safety, shipboard maintenance, operations, management, and small boat handling throughout the year. Marine Programs also manages the summer training cruises taken by cadets aboard the *Training Ship GOLDEN BEAR*. The training ship serves as a "floating classroom" upon which license-track cadets participate in classes, both while it is docked and at sea.

The *Training Ship GOLDEN BEAR* serves as the primary training platform upon which cadets apply technological skills learned in the classroom and leadership skills acquired from their work assignments and responsibilities within the Corps of Cadets. Each summer the ship departs for its two-month annual training cruise with licensed faculty officers and ship staff. At sea, intellectual learning, applied technology, and leadership development occur daily as cadets apply what they have learned in the classroom, in the laboratories, in the Corps, and on the waterfront. Those cadets working toward a license can experience the responsibility of command, demonstrate their effectiveness as leaders, and hone their technical skills and leadership styles.

During these summer training cruises, the ship typically stops at several foreign ports of call. This provides opportunities for all cadets to learn about other cultures by interacting with local populations. They can also see in context the role that the maritime industry and their selected vocations play in a global economy. Our cadets act as ambassadors of Cal Maritime, of California, and of the United States.

LEADERSHIP DEVELOPMENT

Leadership development is one of the four points of the Cal Maritime compass that help define and guide our institutional mission. Most definitions of leadership contain a two-pronged focus of being able to define a mission or vision and the ability to influence people to work with them to accomplish or achieve it. As such, Cal Maritime's leadership program develops critical thinking and communication skills, and through the use of sound conclusions established in research addressing human motivation, the leadership program helps cadets shape their personal character strengths into professional leadership styles. The program goes beyond basic management skills in and shows students the value of professional competence and personal integrity in motivating others to follow.

At Cal Maritime, students are exposed to leadership opportunities with real-world responsibilities and real-world consequences from the moment they arrive on campus. They receive an academic foundation on leadership theories with concepts of leadership integrated throughout the curriculum. The academic curriculum also demands that every cadet exercise team-building and leadership-development skills through classroom- and lab-based courses requiring participation in a variety of topics, including Marine Survival, Engineering Plant Operations, Small Craft and Ship Handling, and Emergency Response Operations.

In addition, students are required to develop and display commitment, discipline, and integrity, by: standing watch on and maintaining a federally owned training ship; training to fight fires and perform rescue operations; organizing international relief aid for impoverished communities; and by abiding by the standards of conduct put forth by the Corps of Cadets. Also, student government, housing, campus clubs, organizations, and athletic teams all require student leaders to step up from among the cadets, leaders who have been formally elected, selected, or appointed, and by other students who recognize a leadership void, and fill that void to the best of their ability. To Cal Maritime students, the work environment is never hypothetical, never purely theoretical. To a great extent, they live it daily.

CORPS OF CADETS

The Corps of Cadets is what sets Cal Maritime apart from most other colleges and universities in the United States. Every Cal Maritime student is a cadet in the Corps, and is required to participate in Corps activities including participation in formations and inspections and abiding by standards of grooming, and standards of conduct.

The Corps functions as the most visible mechanism for the delivery of the widest range of direct leadership experience opportunities on campus. All Corps members develop positive and desirable leadership traits, such as bearing, discipline, initiative, integrity, justice, loyalty, reliability, responsibility, selflessness, and tact. Much is asked of every cadet at Cal Maritime, and the development of self-discipline is critical to the success of each man and woman in the Corps.

The Corps is directed by approximately 40 cadet officers appointed from the senior class by the President. The Corps Commander is the highest ranking cadet and works closely with the Corps Executive Officers, Corps Training and Academics Officer, Corps Administrative Officer and two Company Commanders. Every new cadet is placed in a division upon entry into Cal Maritime. The Division Commanders work closely with all cadets in developing professional, watchstanding, and leadership skills. These officers also work to ensure high morale, camaraderie and fellowship within their divisions.

LEADERSHIP DEVELOPMENT OFFICE

The Leadership Development office is responsible for overseeing the Corps of Cadets. It is involved in many of the day-to-day activities of the Corps, in training Corps officers, overseeing watchstanding, and offering leadership instruction for all cadets.

WATCHSTANDING

Watchstanding is an important element of leadership development and is essential for each cadet's future success, whether at sea or ashore. Cadets stand watch either on the *Training Ship GOLDEN BEAR* or on campus. As they develop their skills, cadets are placed in positions of increasing levels of responsibility. As their knowledge grows, they oversee and direct the actions of others during periods of watch.

Watches are scheduled in 4-hour blocks from 4:30 p.m. until 7:30 a.m. daily, every day including weekends. Watches provide important learning experiences for cadets, and they also assist Cal Maritime in providing a high level of security and safety, both on campus and the ship.

STANDARDS OF CONDUCT

Another important element of leadership development is standards of conduct. All cadets are subject to rules and regulations that characterize the objectives set forth in the development of their leadership and professional skills. Cal Maritime's conduct and discipline system is a vehicle for assessing a cadet's aptitude for becoming a respected working professional.

The goal of the conduct system is to develop and reward positive personal characteristics and to modify incorrect behavior. Cadets receive demerits for inappropriate behavior and, those with excessive demerits, may be required to serve extra duty on Saturdays. Cadets who commit egregious breaches of conduct or who have consistent conduct problems may be subject to extra duty, probation, suspension or dismissal.

Cadets are required to wear uniforms to all academic functions and formations, and while standing watch. Inspections are conducted and grooming standards for both men and women are enforced.

Regulations also exist that forbid cheating, plagiarism, alcohol consumption, use of illegal drugs, theft, hazing and other conduct considered unbecoming of a member of the Corps.

DRUG TESTING

The Cal Maritime, as prescribed by 49 CFR Part 40 and amendments thereto, randomly administers drug tests to all cadets. Testing may also occur for reasonable cause, pre-employment, USCG licensing physical exams, follow-up testing, and for any marine casualty, accident, or serious incident. Additional testing for alcohol may also be undertaken during the training cruise.

POLICY ON USE OF ALCOHOL AND DRUGS

In compliance with the federal Drug-Free Schools and Communities Act Amendments of 1989 (20 U.S.C.1145g), Cal Maritime prohibits the unlawful possession, use, sale, or distribution of alcohol and illegal drugs by cadets, faculty, and staff on its property, training vessels, or as part of any academy-sponsored activities.

This prohibition extends to any off-campus activities that are sponsored by the institution or any of its recognized clubs and organizations.

Cadets-in-training for a U.S. Coast Guard license are subject to additional federal regulations regarding alcohol and drug use, and are also required to participate in Cal Maritime's random drug testing program.

For more information regarding these regulations and the standards of conduct, please refer to the student handbook and regulations governing the Corps of Cadets, or contact the Leadership Development office at 707-654-1211.

CO-CURRICULAR ACTIVITIES

Cal Maritime offers a variety of co-curricular activities which strengthen and complement the objectives of leadership development. These activities and organizations provide leadership roles for students in preparing them for success upon graduation. Cadets can strengthen their leadership skills by participating in one or more of the following activities:

- **Associated Students of the California Maritime Academy (ASCMA).** A student-elected Board of Directors governs the ASCMA, providing board members and class officers ample leadership opportunities during the academic year, and during the training cruises. They use student funds to create and operate programs to benefit the student community.
- **Athletics.** The academy sponsors nine intercollegiate athletic teams, including three – men's and women's basketball and men's soccer – that are members of the National Association of Intercollegiate Athletics and the California Pacific Conference. Building teams and developing leaders has long been recognized as a critical element for successful athletic competition.
- **Academy clubs and organizations.** Cal Maritime has several student clubs and organizations. All clubs elect officers who lead their respective organizations.
- **Housing and residence life.** A large majority of cadets live in on-campus residential facilities and on the training ship. Residential life is an important component of a cadet's experience at Cal Maritime, and housing staff members strive to create a community atmosphere in each of our three residence halls. Resident Assistants (RAs) are trained student housing staff members who live in the residence halls, and lead cadets in their respective halls through social and community standards. RAs are selected, based on demonstrated maturity, their willingness to commit to the health and welfare of a larger community, and their ability to maintain a comfortable and safe living environment in the residence halls and the training ship.
- **Community outreach.** Cal Maritime's Community Engagement office participates in many local community-development projects. Numerous volunteer opportunities exist for cadets to help in community outreach programs, in local schools, and with non-profit organizations.

CAMPUS LIFE AND STUDENT SERVICES

Cal Maritime provides a range of co-curricular classroom experiences and services that encourage student learning and foster a sense of community. Students are challenged to support community standards within an environment where the principles of freedom of expression, civility, diversity, fairness and caring are valued and affirmed. Student development programs and services enhance, support, and enrich the academic and training goals of the institution, and provide students with opportunities to learn and practice life skills, citizenship, leadership and wellness.

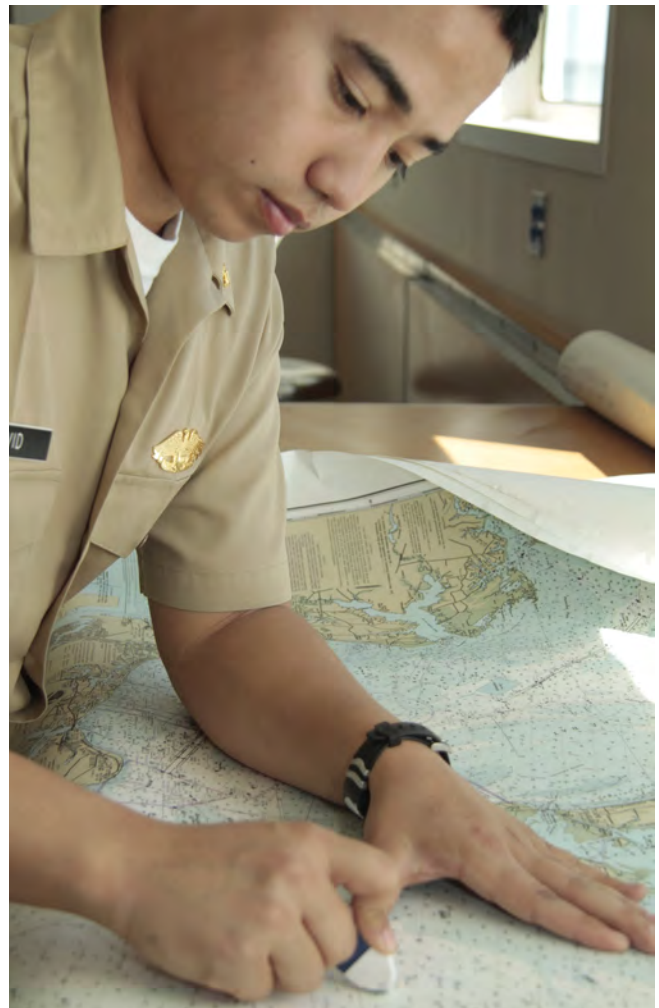
Services and programs include new student orientation, housing and residence life, dining, student health, counseling, career development, financial aid, admissions, commencement, and the Associated Students of California Maritime Academy (ASCMA). Special programs and tutorial services are available to support students in need of academic assistance through the Center for Engagement, Teaching and Learning.

The purpose of student services and programs is to:

- assist students with identifying, clarifying and achieving personal education and life goals
- improve the quality of student life
- provide opportunities for students to participate in social, cultural, recreational, and community experiences
- enhance the campus learning environment
- improve student access and retention

STUDENT CENTER

The Student Center building serves as a focal point for campus life. The Morrow Cove Café, Student Health and Wellness center, Counseling Services, office of the Dean of Students, student mail services, and the ASCMA offices are located in this facility, along with a lounge and common room overlooking the waterfront for studying, watching TV, having lunch, accessing the internet, or just taking a break.



ASSOCIATED STUDENTS OF THE CALIFORNIA MARITIME ACADEMY (ASCMA)

Associated Students, Inc. (ASI), a non-profit student-run corporation chartered with California's Secretary of State, utilizes student funds to create and operate programs to benefit the student community. The ASCMA fee is paid by all students, making its members eligible to vote in the annual elections for ASCMA leadership.

A student Board of Directors, elected each year, governs the ASCMA. The Board is comprised of a president, vice president of finance, executive vice president, chief of staff, and officers from each class. The Board meets throughout the fall and spring semesters.

ASCMA's services and programs are designed to enrich campus life and to help support many campus organizations. ASCMA officers also serve as the elected representatives of students, and work to protect students' rights.

The ASCMA sponsors a very active social calendar on campus under the direction of the Activities, Camaraderie, and Entertainment (ACE) coordinators and Adventure & Recreational Center (ARC) for the outdoor enthusiast. ACE events have included comedy nights, coffee houses, hypnotist shows, casino nights, faculty/staff appreciation day, trips to see plays in San Francisco, social events with local area colleges, and other Bay Area sporting events and concerts. For the outdoor enthusiast, ARC provides day & weekend hiking and camping trips, day ski trips, kayaking trips, free rental of outdoor equipment, Friday night rock climbing nights at local gyms, and much more. Student activities fees allow ASCMA to provide these events to students for reduced or no charges. The ASCMA also registers, oversees and appropriates student fee money to active campus clubs and organizations.

OFFICE OF HOUSING AND RESIDENTIAL LIFE

The three campus residence halls can accommodate 580 students, with many rooms having a beautiful view of the Carquinez Straits. In addition, the *Training Ship GOLDEN BEAR* is home to over 120 students during the academic year.

Study lounges, meeting rooms, recreational areas, a barbershop, vending machines and laundry are located on campus within different residence halls.

Most students share double-occupancy rooms, and some share triple rooms. All students are required to maintain residence on campus unless granted an exception under the terms of the off-campus housing policy.

Professional and paraprofessional staff members live in the residence halls and are available to assist students. The Housing and Residential Life staff coordinates an exciting program of educational seminars, social events and recreational activities for residents each semester.

Each student room is wired for Internet access, cable television and telephone services which are included in the housing fee. The campus offers voicemail and email for each student. Please refer to the Student Handbook for additional information on services provided through Housing and Residential Life.

OFF-CAMPUS HOUSING PETITION AND APPEALS CONSIDERATION

POLICY STATEMENT

It is the policy of Cal Maritime that students enrolled in its baccalaureate degree programs shall maintain residence on campus and participate in a meal plan. All undergraduate, unmarried students under the age of 24 are required to live on campus and purchase a meal plan as part of their educational experience at Cal Maritime. When current enrollment exceeds the number of available beds, exceptions to this requirement may be made on a space-available basis in accordance with established policies from Housing and Residential Life. Decades of research and best practices in higher education support the added benefits of living on campus. Students who live on campus take and earn more credit hours, have higher GPAs and are more likely to graduate than their off campus counterparts.

OFF-CAMPUS HOUSING

Phase 1 All requests for off-campus housing must be submitted to the office of Housing and Residential Life by March 1st. All decisions on Phase 1 Standard Approvals — petitions meeting the March 1st deadline, and which qualify under age, military service, 5th year at CSUM, or marital status guidelines — will be made within 5 business days of submission after review by staff. If approved, you will need to accept or decline within 10 business days of your approval. All other off-campus petitions will be sent to the Off-Campus Housing Review Committee for consideration. If you are not approved you will have two options:

- **Option 1** – Within 5 business days of your denial, submit a written request to the office of Housing and Residential Life that you would like to be placed into the off-campus lottery
- **Option 2** – Within 5 business days of your denial, submit a written appeal to the Dean of Students. In your appeal, you must present new and/or additional information that was not available at the time the committee reviewed your petition. If you decide to appeal you will not be allowed to enter the lottery after the April 1st deadline. The Dean of Students is the final appeals agent

Phase 2 (Lottery Only) A box is available to check on the off-campus housing request form for 'Lottery Only'. Lottery Only petitions must be submitted to the office of Housing and Residential Life by April 1st.



CONSIDERATION FOR OFF-CAMPUS HOUSING REQUESTS

Generally, off-campus privileges will be considered for the following circumstances:

- **Age** – Students who are 24 years of age or older on or prior to October 31 of the following academic year. Must submit a copy of a valid driver's license or government ID.
- **Military Service** – Students who have served at least two years of continuous active military duty. Must provide a copy of your DD-14 papers or discharge papers.
- **Maritime License** – Students holding a Third Mate or Third Assistant Engineer maritime license. Must provide a copy of your license.
- **Marital Status** – Students who are married or head of household, as defined by the Internal Revenue Service, and students who are domestic partners and can qualify according to Cal Maritime policy. Must provide a copy of your marriage license.
- **5th Year as Cal Maritime Resident Student** – Students who have completed at least 8 semesters of residency on campus. Residency on the Cal Maritime campus is defined as having completed the housing license agreement, moved into the residence hall, picked up and returned room key at the appropriate times, properly completed room checkout, and attended mandatory floor meetings.
- **Medical** – Must provide current (within 1 year) documentation from an appropriate licensed medical professional describing all of the following: the student's disability/medical condition, basis for diagnosis, how the disability/condition impacts student's ability to live in on-campus housing and recommended accommodations. All medical petitions will be reviewed by the Off-Campus Housing Review Committee.
- **Financial hardship** – Must have completed a FAFSA by appropriate date advertised by the Cal Maritime office of Financial Aid. Must include a copy of your income tax return as well as other documents supporting your claim, and must have accepted all university aid offered, including loans. Must also fill out and submit with petition the budget worksheet. Must still have 20% unmet need. All financial hardship petitions will be reviewed by the Off-Campus Housing Review Committee.
- **Lottery** – Students that have been initially denied off-campus housing may submit a request in writing within 5 business days of their denial, to be placed into the lottery for off-campus housing. There will be at least two rounds of the lottery. Seniors will have first priority and all other students will have second priority. The petitions must be submitted prior to the April 1st deadline. Must have three semesters of residency on Cal Maritime campus, good academic, disciplinary, and financial standing, and have completed a minimum of 50 credit hours at time of application. Residency on the Cal Maritime campus is defined as having completed the housing license agreement, moved into the residence hall, picked up and returned room key at the appropriate times, properly completed room checkout, and attended mandatory floor meetings. The lottery will take place in the middle of April. The approval for off-campus housing may come as late as the date of start of classes for the following academic year.

Off-Campus Housing Review Committee – The committee will consist of the Executive Director of Auxiliary Services, one Housing & Residential Life professional staff member, and three students from a combination of ASCMA, housing, and Corps officers. All requests made under medical, financial hardship and other grounds will reviewed by the Off-Campus Housing Review Committee. Students must submit their petition with all accompanying required written documentation, and may also sign up for 15 minutes of time with the Off-Campus Housing Review Committee.

The off-campus housing approval offer must be accepted by submitting the Off-Campus Housing Acceptance agreement to the office of Housing & Residential Life within 10 business days of the offer, or by July 1st, whichever is sooner. If acceptance is not timely, the off-campus approval will be revoked.

All students living off-campus are required to provide their living and mailing address, contact information, and landlord information to the office of Housing & Residential Life at time of acceptance of the off-campus approval. Students are required to maintain current mailing, phone, and living address in the student online services area in PeopleSoft. All students living off-campus are expected to follow and uphold Corps standards of conduct at all times. Students are expected to be good neighbors and citizens on- and off-campus. Failure to meet these expectations may result in revocation of permission and privilege of living off-campus and require the student to move into campus housing at the student's expense.

DINING SERVICES

Cal Maritime Dining Services is a hospitality organization dedicated to providing the campus community and guests with high quality food and services in a variety of settings. The striking new dining center has expansive waterfront views from its two stories and mezzanine level. The main floor and mezzanine are designed for student dining and are open 7 days a week. The service area features 6 stations offering healthy meals daily in an all-you-can-eat setting. The second floor can be divided into three conference rooms or function as one large meeting or banquet space. Meal service is not provided on holidays or weekends secured from watch, or during winter and spring breaks.

During the *Training Ship GOLDEN BEAR* cruise, Cal Maritime Dining Services provides all shipboard meals and services.

The Morrow Cove Café is an additional food service location to visit for morning coffee, lunch, and beverages and snacks throughout the day. Closed in the afternoon, the café re-opens in the evening for expanded meals.

It is located inside the Student Center building where one can catch up on email, relax while watching TV in the common room and lounge, or sit outside on the patio overlooking the waterfront.



Cal Maritime policy states that all campus resident students enrolled in its academic degree programs must participate in a meal plan available through Cal Maritime Dining Services. Dining Services offers three meal plans for resident students and one for off-campus students.

- **The 19-Meal Plan** provides the maximum number of meals available – breakfast, lunch, and dinner on Monday through Friday in the dining center or café, and brunch and dinner on Saturday and Sunday in the dining center. In other words, a cadet may have a meal at each of the 19 serving sessions during which the dining center or café is open in a week. Unused meals for a week do not carry forward.
- **The 15-Meal Plan** provides the cadet a choice of eating at any 15 of the 19 serving sessions during which the dining center or café is open in a week. Unused meals for a week do not carry forward.
- **The 15-Meal Flex Plan** provides the cadet a choice of eating at any 15 of the 19 serving sessions during which the dining center or café is open in a week. It includes ‘flex dollars’ which can be used to purchase beverages, snacks, or even a full meal, for the student or a guest. Unused meals are erased at the end of each week. Flex dollars roll over from fall to spring semester but do not carry over year-to-year.
- **The 35-Block Plan** is available to off-campus students, faculty, and staff. This plan allows for 35 visits to the dining center (all-you-can-eat meals) or you can take advantage of the board meal equivalency option for lunches in the café. One meal will be subtracted from your starting balance for each meal that you redeem. The meals may roll over from fall to spring but do not carry over year-to-year. Please make purchases in multiples of 35 as needed. Flex dollars are not available on this plan.

STUDENT HEALTH AND WELLNESS

Physical and emotional well-being has a tremendous impact on a student's academic performance. Our mission is to promote and maintain the health of our students by modifying or removing health-related barriers to learning. This goal is met by helping students obtain the skills to remain healthy throughout life, improving their lives as members of both the campus and wider communities.

Student Health Services (SHS) provides confidential, high quality, and easily accessible outpatient primary care services on campus to all Cal Maritime students. SHS embraces an approach that uses health education in a manner that students understand how to make informed decisions about their health and wellness.

Services are available:

Monday–Friday, 9 a.m. to 5 p.m.
(Closed 1-2 p.m.)
(707) 654-1170

Students are encouraged to utilize the SHS for the majority of their health care needs. Urgent care (drop-in) visits with a Nurse Practitioner are available, as well as scheduled appointments for services such as physical examinations and women's health exams. SHS also provides basic laboratory tests on or off-campus, limited pharmaceuticals, a dermatology clinic, and referrals to off-campus providers for specialty care beyond the scope of SHS. In addition, SHS provides confidential, short-term, mental health visits with a licensed clinical psychologist. Most services provided by SHS are at no or low cost. However, with the exception of basic laboratory tests and x-rays, students are financially responsible for services received outside SHS.

MEDICAL SERVICES

SHS provides the following basic health care services to regularly enrolled students:

- primary care of acute and sub-acute conditions, illnesses, and injuries
- physical examinations, including pre-cruise and USCG physicals
- family planning services, excluding surgical procedures, as consistent with current medical practice
- health education programs
- immunization programs for the prevention and control of communicable diseases
- evaluation and counseling for individual health problems (including screening)
- dispensing of limited pharmaceuticals at no additional cost
- limited laboratory testing
- a dermatology clinic
- preparation and maintenance of professional electronic medical records
- emergency first aid to all persons while on the CMA campus, if a health care provider is on duty
- access to a 24-hour nurse advice line (800-977-0027) for after-hours, confidential health care advice and information
- referrals to health care providers in the community for services beyond the scope of SHS (at the student's own expense), including drug and alcohol-related concerns
- consultative services on health related issues involved in other campus programs, such as the annual training cruise

COUNSELING AND PSYCHOLOGICAL SERVICES

Short-term counseling and psychological services are available to Cal Maritime students through SHS. A licensed clinical psychologist provides individual, couples and group counseling. Counseling sessions are confidential and at no cost. Students may drop-in if they need to be seen on an urgent basis, but it is best to make an appointment by calling SHS.

Many students find counseling helpful in resolving problems such as relationship difficulties, adjusting to the pressures of college, and family issues. Students who experience periods of depression, anxiety, concern about alcohol or other drug use, or a change in eating or sleeping patterns should consider counseling.

Some students come for one appointment to work out or to resolve a difficulty. Other students decide to meet regularly for a limited time (10 session limit per year) to develop insight into the nature of problems. This second option will make future difficulties less likely. Counseling and Psychological Services (CaPS) will work with students so that they may find greater success and enjoyment personally, academically and professionally.

If students find themselves in a time of personal crisis and CaPS is closed, they should contact any SHS staff member. They may also call the nurse advice line 800-977-0027 or the Solano County Mental Health Services Psychiatric Emergency team at 707-428-1131, both services available 24 hours a day, year round.

HEALTH CARE SERVICES AT SEA

During the annual training cruise, SHS relocates to the medical treatment facility onboard the *Training Ship GOLDEN BEAR*. This facility is staffed by a Chief Medical Officer (Physician) and a Medical Officer (Physician Assistant, Nurse Practitioner, Registered Nurse) to provide medical care. The medical team provides a daily drop-in clinic, twice a day while at sea and once a day while in port, for students to access health care. In addition, 24-hour limited emergency medical care is available while at sea.

The training ship is equipped with basic lab, x-ray, medical supplies, and pharmaceuticals to support the majority of the students' health care needs.



MANDATORY HEALTH INSURANCE

Due to the special nature of the educational experience at Cal Maritime, which includes a training cruise often involving international travel, students are required to be covered by health insurance. All matriculated Cal Maritime students are automatically enrolled in and charged for the school's student health insurance plan unless an online health insurance waiver that certifies comparable coverage is completed and approved by the designated deadline, usually in early July (and December for returning students only). Please see the SHS website for more information including deadline dates on Cal Maritime's health insurance requirement and to access the online health insurance waiver link at:

www.csum.edu/health

While on campus or at sea, the treatment of certain illnesses, injuries, and medical conditions may require hospitalization or services beyond the scope of authorized services by SHS. In such instances, a student will be referred to local community health care services, where utilization of the student's personal medical insurance will be essential.

EMERGENCY TRAVEL ASSISTANCE SERVICES REQUIREMENT

All Cal Maritime students are required to have emergency travel assistance services provided by On Call International. On-Call International provides medical evacuation and repatriation services if a student becomes ill or injured in a foreign country, or anywhere that is more than 100 miles away from home or campus. On-Call International will cover emergency medical transportation home, or to the nearest qualified regional hospital, as long as medically indicated. Students who enroll in the student insurance plan are automatically covered for travel assistance.

Students who waive out of the school's health insurance plan will be charged the travel assistance group rate of \$20 per semester. For more information on the emergency travel assistance services, please visit:

www.oncallinternational.com

For more information, please contact SHS by phone at 707-654-1170 or by email at healthcenter@csum.edu.

ACADEMIC SUPPORT SERVICES

Cal Maritime provides instructional support for the retention and academic success of students through the Center for Engagement, Teaching and Learning (CETL). These services include tutoring, disability resources, computer access, academic counseling, and quiet study space.

TUTORING

The CETL offers accessible academic support through FREE group tutoring. Tutoring is designed to assist the student become an independent learner. Tutoring support is available for courses in many subject areas including math, writing, science, engineering, global studies, and marine transportation.

DISABILITY SERVICES

The Disability Services office (DSO), located within the CETL, is committed to supporting the academic success of Cal Maritime students who have documented disabilities. Support services and information resources are provided to individual students with disabilities, and to the entire campus community. The CETL provides a quiet testing room for students with disabilities, as well as accessibility software and hardware designed to assist learning.

Expanding upon this role, the CETL provides assistance and workshops for the campus community in support of the Chancellor's Assistive Technology Initiative.

Students seeking disability services should follow these steps to complete an application for assistance through the DSO:

1. Read guidelines for documentation/verification of their disability. (Guidelines may differ according to disability.)
2. Submit an application for services with disability verification documents to the DSO.
3. DSO verifies appropriate documentation and accommodations.
4. Schedule intake appointment and bring class schedule (when available).
5. Instructors are notified by the DSO.
6. Student consults with individual instructors regarding appropriate accommodations.

Instructions and forms are available at:

<http://www.csum.edu/web/faculty-and-staff/office-of-disability-services>

STUDENT SUCCESS MATERIALS

Materials are available in the CETL to help students develop the skills necessary to be successful. Handouts cover topics such as managing stress, setting goals, managing time, and taking notes, among others. In addition, tutors can provide one-on-one discussion and assistance on these topics and help develop successful study habits.

OTHER SUPPORT SERVICES

- **Learning advice/support** – If students would like advice regarding learning techniques, private appointments are available with the Director of the CETL
- **Quiet study environment** – The CETL provides a quiet study environment to accommodate individual or group study. 25 computers are also available for student use
- **Wireless access** – The CETL provides tables and lounge area where students may bring their laptops and connect to the internet

INTERNATIONAL AND NATIONAL EDUCATIONAL EXCHANGE PROGRAMS

Cal Maritime has established programs of exchange and collaboration in areas of mutual interest with the following national and international Maritime Academies and Universities:

- Dalian Maritime University, Dalian, China
- Far Eastern State Maritime Academy, Vladivostok, Russia
- Kobe University of Mercantile Marine, Kobe, Japan
- Korea Maritime University, Busan, Korea
- Maine Maritime Academy, Castine, Maine, USA
- Mexican Maritime Academy, Mexico City, Mexico
- Mokpo Maritime University, Mokpo, Korea
- Shanghai Maritime University, Shanghai, China
- Singapore Maritime Academy, Republic of Singapore
- Tokyo University of Mercantile Marine, Tokyo, Japan
- Vietnam Maritime University, Haiphong, Vietnam

Students enrolled at Cal Maritime will have the ability to participate in exchange programs established at these institutions.

POLICE SERVICES

Cal Maritime's Police Services department provides day and night service on and around campus. Our mission is to provide a safe living and learning environment for our community. Sworn and non-sworn staff work closely with our community to prevent crime, enforce laws, preserve peace, and provide educational programs. We are the first responders to campus emergencies. Officers conduct foot and vehicle patrols on campus, including interior patrols of the campus residence halls.

Some of our safety programs include: Safety Escort Program; Drug/Alcohol Program; Don't Stall-Call; Blue Light Emergency Phones; Operation I.D.; If I Were a Thief; and, Disabled Vehicle Assistance.

The department has three primary areas of responsibility: policing and patrol services; emergency preparedness; and, parking/alternative transportation. For more information please visit us at:

<http://www.csum.edu/web/police-services>



ANNUAL SECURITY REPORT AND CRIME STATISTICS

Cal Maritime publishes an Annual Security Report with crime statistics in compliance with Public Law 101-542, The Student Right-to-Know and Campus Security Act. These statistics are available through the Cal Maritime website at:

<http://www.csum.edu/web/police-services/clery>

EMERGENCY PREPAREDNESS

Cal Maritime maintains a comprehensive Emergency Management Program that includes: (1) risk mitigation; (2) emergency preparedness; (3) emergency response; (4) recovery from emergencies that overwhelm campus resources; and, (5) the circumstances under which Cal Maritime's Emergency Response Plan should be activated.

Cal Maritime's Emergency Response Plan provides the basic structure and procedures that guide the campus's response to extraordinary emergency situations associated with natural and man-made disasters. Cal Maritime personnel and equipment will be utilized with the following sequential priorities: Priority I - Protection of life safety; Priority II - Maintenance of life support and assessment of damages; Priority III - Restoration of general campus operations; Priority IV - Financial reimbursement through the appropriate state and federal agencies. As operations progress from Priority I through IV, the administrative control of the campus will transition from the NIMS/SEMS/ICS structure back to the normal Cal Maritime organizational structure. The entire Emergency Response Plan is available at:

<http://www.csum.edu/web/police-services/emergency-preparedness-plan>

PARKING AND MOTOR VEHICLES

The use of motor vehicles (autos and motorcycles) at Cal Maritime is considered a privilege that is granted subject to compliance with California law and Cal Maritime regulations. Parking is limited, and a campus permit is required. New incoming students must submit a waiver request to be considered for approval to purchase a permit. This form can be found in their admissions booklet. Parking regulations are available in the Student Handbook and at:

<http://www.csum.edu/web/police-services/parking-and-transportation>

COMMUNITY ENGAGEMENT AND SERVICE LEARNING

Community engagement and service-learning have been a part of CSU life from the time that the first campus opened in 1857. They are teaching and learning techniques providing situated and anchored student participation.

This participation in meaningful and planned community-service experiences directly relates to course content extending learning beyond the theoretical. Through engagement and reflective activities, students enhance their understanding of course content and develop their civic responsibility, self-awareness, and leadership skills.

MISSION

The mission of Cal Maritime's Community Engagement Center is being a driving and innovative force that advances our campus' commitment to serving our surrounding communities, and enabling our students to engage in critical inquiry and hands-on service.

COMMUNITY SERVICE LEARNING

Cal Maritime is well suited for implementing service learning courses. Our technical curriculum has always embraced a hands-on approach to learning and leadership training. We think of our *Training Ship GOLDEN BEAR* as being a living laboratory. There exists a long history of cadets providing service to the community, both at home in Vallejo and overseas, in places as far away as Fiji and Chile.

EXAMPLES OF COMMUNITY ENGAGEMENT ACTIVITIES:

- service-learning
- performing community service
- community forums and town halls
- community-based internships
- community-based research

CAL MARITIME COMMUNITY PARTNERS

The Community Engagement Center works closely with local non-profits, schools, and government agencies, building long-term, sustainable partnerships that promote service and engagement for Cal Maritime students, faculty, staff, and alumni.

EARLY ASSESSMENT PROGRAM

The Early Assessment Program (EAP) was established by the State Board of Education, Department of Education, and the CSU, with the goal of allowing high school graduates to enter the CSU fully prepared to begin college-level work. The program works with local high school students, teachers, and administrators to achieve this goal. Cal Maritime students may choose to serve as mentors and academic tutors at local high schools through the EAP.

CAREER SERVICES

The Career Center is responsible for assisting with graduate recruiting, commercial cruise coordination, and cooperative internships. On-campus job staff are available to assist in resumé building, interview skills, career development workshops, and career counseling.

MISSION

Through partnerships with employers, Cal Maritime's Career Center ensures that all students are provided the opportunity to realize their career goals.

CAREER FAIR

Each year, the Career Center hosts a career fair that attracts companies from all across the country. This event is open to all students. Exhibitors include maritime companies, engineering firms, and a broad base of business and logistics companies.

CAREER AND COMMUNITY PARTNER EXPOSITION

This event is held in the fall semester. Exhibitors include volunteer and non-profit organizations, graduate schools, and government agencies. All students are encouraged to attend and learn about each organization.

COMPANY PRESENTATIONS AND INTERVIEWS

Each year, companies come to campus to recruit our graduating seniors. They hold presentations and follow up with interviews. Graduating seniors are able to sign-up ahead of time to secure an interview slot. Companies also come to campus to recruit for co-op positions and part-time jobs. All students, regardless of class standing, are encouraged to attend company presentations. These companies come directly to our campus because of Cal Maritime's outstanding reputation in the industry.

CAREER COUNSELING

The Career Center provides confidential and professional career counseling to those students who are not sure about their next career step. The Career Center uses several different forms of career assessments and provides individual counseling.

WORKSHOPS

The Career Center prepares students for the job market by providing:

- job-preparedness workshops
- one-on-one job search counseling
- resumé preparation and business letter writing
- interviewing and job search strategies
- mock interviews (in person, online and by phone)
- dress-for-success seminars

COMMERCIAL CRUISE

License-track cadets participate in commercial cruise on commercial vessels. The Career Center provides administrative support in implementing the commercial cruise program. Students select their commercial vessel based on their conduct and their academic progress. Tanker applicants are required to accept 90-day assignments whereas 60-day assignments are the minimum on all other vessels.

The commercial cruise coordinator works under direction from the academic department Chairs. As this is an academic program, please find other details such as prerequisites under the specific course listing.

COOPERATIVE EDUCATION (CO-OPS)

All non-license track cadets must participate in a Co-Op as required for their major. Co-Ops provide a great opportunity to develop skills that have been learned in the classroom, culminating in a relationship with a company that may lead to a job offer upon graduation.

All Co-Op placements must be approved by the appropriate academic department. As this is an academic program, please find other details such as prerequisites under the specific course listing.

ON-CAMPUS JOBS

The Career Center is the one-stop location to find an on-campus job. At the start of the fall semester an on-campus job fair is held on the campus quad. Each department hosts a table-top display where students can learn about each job and apply for openings. After the job fair, students seeking employment are directed to the Career Center's job board.

JOB BOARD AND WEBSITE

The Career Center has an online job board where companies may post jobs directly. There are positions available from entry-level, part-time, going all the way up to CEO-level appointments. The website is also a powerful networking tool. All students and alumni are encouraged to take advantage of this free tool at:

www.alumni.csum.edu

MILITARY OPPORTUNITIES

There is no armed service obligation requirement to graduate from the Cal Maritime. However, several military options are available that can offer financial aid and additional career opportunities.

U.S. COAST GUARD - MARITIME ACADEMY GRADUATE PROGRAM

The Maritime Academy Graduate Program (MARGRAD) is a program of the U.S. Coast Guard. Its mission is to enlist as Coast Guard officers those individuals who have graduated from, or will soon graduate from a maritime college or university.

Eligibility

To qualify for MARGRAD, one must meet the following qualifications:

- for the grade of Ensign, be between the ages of 21 and 40 (applicants must have reached their 21st birthday but not their 41st birthday as of September 30 of the fiscal year in which the panel convenes); for the grade of Lieutenant Junior Grade, applicants must also have served one or more years on board vessels of the United States in the capacity of a licensed officer
- have graduated from an accredited maritime college or university with at least a bachelor's degree with a Coast Guard license option
- not be on active duty in any other U.S. armed service (one can apply while on active duty, provided he or she submits a discharge statement. Applicants in an Inactive Reserve program must submit a conditional release)
- pass a Coast Guard physical exam
- be a U.S. citizen
- not be a conscientious objector
- have at least a 2.2 GPA on a 4.0 scale

Obligation

Individuals who are selected attend a five-week Direct Commission Officer training course and serve on active duty for three years. After one year of the initial three-year contract, individuals will have the opportunity to apply for full-time university graduate or post-graduate training. If accepted, the Coast Guard will pay all tuition expenses and salary while in school.

Information

MARGRAD information sessions take place every academic year at Cal Maritime. Interested students can contact their local recruiter or BMC Kurt Kuntzmann at kurt.kuntzmann@uscg.mil or at 510-769-8187.

Information is also available at:

<http://www.gocoastguard.com/find-your-fit/officer-opportunities/programs/maritime-academy-graduate>

U.S. NAVY – STRATEGIC SEALIFT OFFICER PROGRAM

The Naval Science department prepares students to participate in the Strategic Sealift Officer Program (SSOP), a joint program established in 1925 between the U.S. Navy and the U.S. Merchant Marine. This is a program unique to maritime schools. It allows students who have earned U.S. Coast Guard licenses as merchant marine deck or engine officers to be commissioned as Ensigns in the Naval Reserve upon graduation. SSOs normally serve on inactive duty in the Individual Ready Reserve Group, allowing them to work as civilians in the maritime industry without the monthly drill requirement. They are called to serve on active duty when required to support major military sealift operations that call for the training and experience of licensed merchant marine officers. The program also offers the option to pursue an active duty commission upon graduation as an unrestricted line officer.

Eligibility

To participate in the SSOP, students must meet the following qualifications:

- be no older than 27 years by June 30 of commissioning year, waived to 30 years for prior military service
- pass a Department of Defense physical examination
- pass a semi-annual physical readiness test
- be enrolled in a degree program with a U.S. Coast Guard license option
- be in good academic standing, with a GPA of 2.0 or better

Students will be offered the opportunity to join the SSOP in their first year at Cal Maritime. Applications will be reviewed by the Officer-in-Charge of the department of Naval Science. Successful applicants will receive appointments as Midshipmen, U.S. Navy Reserve.

Benefits

Midshipmen between the ages of 17 and 24 are eligible to receive a Student Incentive Payment of \$4,000 each semester (\$32,000 total distributed over four years) from the Federal Maritime Administration.

Program Requirements

Midshipmen (SSO students) meet for weekly leadership and physical training sessions at Cal Maritime, and take additional Naval Science classes. Specifically, midshipmen must complete the following courses:

- NSC 100 Naval Science for the Strategic Sealift Officer
- NSC 200 Naval Science for the Strategic Sealift Officer I
- NSC 400 Leadership, Ethics, and Naval Science for the Strategic Sealift Officer II

Obligation

Upon graduation, midshipmen are commissioned as Ensigns in the U.S. Navy Reserve. They are obligated to maintain their Coast Guard license and participate in the Navy Reserve for eight years, during which time they will perform two weeks of active duty per year. In addition, they are required to maintain employment in the maritime industry for three years.

Information

For additional information, contact the department of Naval Science at 707-654-1266.

ROTC

In addition to the above programs, Cal Maritime provides Army, Navy, and Air Force ROTC programs through arrangements with other universities in the area.

VETERAN SERVICES

Cal Maritime is approved by the State of California as a training facility for veterans applying for VA educational benefits. The office of the Registrar provides VA enrollment certification services to new and currently-enrolled veterans and dependents who are eligible for the GI Bill. For information about financial aid outside your VA educational benefits, visit the Financial Aid office website at:

<http://www.csum.edu/web/financial-aid/home>

The following educational benefits are available to veterans and dependents at Cal Maritime:

- Chapter 30 (Montgomery GI Bill - Active Duty)
- Chapter 31 (Vocational Rehabilitation)
- Chapter 33 (Post-9/11 GI Bill)
- Chapter 1606 (Montgomery GI Bill - Reservists)
- Chapter 1607 (Reserve Educational Assistance Program)
- Chapter 35 (Dependents Educational Assistance)
- Dependent Fee Waiver

VETERAN'S AFFAIRS COMMITTEE

The purpose of the Veteran's Affairs Committee is to assist Cal Maritime in meeting CSU and national goals: being a veteran-friendly campus; ensuring that any problems that veterans may have—with the campus or personal—are addressed and resolved; increasing services to veterans and dependents on campus; and raising awareness of veteran-related issues on campus and in the community.

ADMISSIONS FOR VETERANS

As an alternative to regular admissions criteria, an applicant who is an eligible veteran of the U.S. armed forces is considered for special admission. A veteran must meet the following conditions (in addition to supplementary criteria of Cal Maritime for admission or Coast Guard license):

- possess a high school diploma or its equivalent (G.E.D. or California High School Proficiency Examination)
- not have prior enrollment as a full-time college student (12+ units per semester) for more than one term during the past five years
- have an average GPA of 2.0 (C or higher) on all college coursework in the past five years
- meet the English and mathematics requirements for first-time freshmen or transfer students with grades of C or higher
- be in good standing at the last educational institution attended

Also recommended:

- have successfully completed, with a grade of C or higher, a college-level algebra/trigonometry course in the past five years, or have worked in a related technical field within the last two years
- have successfully completed, with a grade of C or higher, a college-level composition course

Please note that Cal Maritime has some flexibility regarding academic requirements for entrance and admissions deadlines for military veterans. This is part of the CSU system-wide effort to prioritize educating those who have served the United States. If you need such flexibility, please contact the Cal Maritime Admissions office and identify yourself as a military veteran. We will do our best to work with you to achieve your educational goals as quickly as possible.

VETERAN STUDENT ASSOCIATION

Cal Maritime's Veteran Student Association (VSA) is open to all Cal Maritime students. The purpose of the VSA is to help veterans transition into college life. The VSA will address issues faced by veteran's on campus, and also at the CSU level. The association will also perform community service to help less fortunate veterans.

Q & A FOR VETERANS

Where can I find out about the CSU's "Troops to College" initiative and how it can benefit me?

Visit the CSU Veterans web site at:

<http://www.calstate.edu/veterans/>

How can I apply?

Apply online at www.csummentor.edu. There is a \$55.00 application fee required when you submit the online application.

What items are required for your office to make an admission decision?

A completed online application, the \$55.00 application fee, and all official high school and college transcripts.

How can I determine if I qualify for admission?

You will be evaluated as a first-time freshman or transfer applicant. To find the qualifications required for those two categories, look for those words on the left side of the website under "I want to apply."

VETERANS' RESOURCES

For up-to-date information regarding VA educational benefits, veterans and dependents of veterans are encouraged to visit the U. S. Department of Veterans Affairs GI Bill website. Students who would like to apply for VA Educational Benefits, or who need to request a change in program or place of training, can complete the required VA forms directly online at the GI Bill website using the Veterans On-Line Application (VONAPP) website.

- Form 22-1990 Application for VA Education Benefits (veteran)
- Form 22-5490 Application for VA Education Benefits (dependent)
- Form 22-1995 Request for Change of Program/Place of Training (veteran)
- Form 22-5495 Request for Change of Program/Place of Training (dependent)
- Free Application for Federal Student Aid (FAFSA)
www.fafsa.gov

Once a student becomes eligible (approved) to receive VA educational benefits, the student should also submit a Cal Maritime Veteran's Information form to the veterans-certifying official(s) in the Registrar's office in order to start the enrollment certification process.

RESOURCE LINKS

- California Veterans Initiative
<http://calstate.edu/veterans/>
- Troops to College Brochure
http://calstate.edu/veterans/documents/CSU_TTCBrochure.pdf
- U. S. Department of Veterans Affairs
<http://www.gibill.va.gov/>
- California Department of Veterans Affairs
<http://www.cdva.ca.gov/vetservice/Waivers.aspx>

For further information regarding VA Educational Benefits, please email veterans@csum.edu which is checked by the veterans-certifying official(s) in the office of the Registrar.

**THE CALIFORNIA
STATE UNIVERSITY**

THE CALIFORNIA STATE UNIVERSITY

The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act of 1960. In 1972, the system became the California State University and Colleges, and in 1982 the system became the California State University (CSU). Today, the campuses of the CSU include comprehensive and polytechnic universities and, since July 1995, the California Maritime Academy, a specialized campus.

The oldest campus—San José State University—was founded in 1857 and became the first institution of public higher education in California. The newest—CSU Channel Islands—opened in fall 2002, with freshmen arriving in fall 2003.

Responsibility for the California State University is vested in the Board of Trustees, whose members are appointed by the Governor. The Trustees appoint the Chancellor, who is the Chief Executive Officer of the system, and the Presidents, who are each the chief executive officer of their respective campus.

The Trustees, the Chancellor, and the Presidents develop systemwide policy, with implementation at the campus level taking place through broad-based consultative procedures. The Academic Senate of the CSU, made up of elected representatives of the faculty from each campus, recommends academic policy to the Board of Trustees through the Chancellor.

Academic excellence has been achieved by the CSU through a distinguished faculty whose primary responsibility is superior teaching.

While each campus in the system has its own unique geographic and curricular character, all campuses, as multipurpose institutions, offer undergraduate and graduate instruction for professional and occupational goals as well as a broad liberal education. All campuses require a basic program of “General Education Requirements” for graduation regardless of the type of bachelor’s degree or major field selected by the student.

The CSU offers high-quality and affordable bachelor’s- and master’s-level degree programs. Many of these programs are offered so that students can complete all upper division and graduate requirements by part-time, late afternoon and evening study. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California. In 2005, the CSU was authorized to independently offer educational doctorate (Ed.D.) programs.

Enrollment in fall 2011 totaled 427,000 students, who were taught by more than 21,000 faculty. The system awards about half of the bachelor’s degrees and a third of the master’s degrees granted in California. More than 2.7 million students have graduated from CSU campuses since 1961.

A recent economic report found that the CSU supports more than 150,000 jobs statewide, annually. The engine driving job creation is more than \$17 billion in economic activity that directly results from CSU-related spending that generates \$5.43 for every dollar the state invests. For more information, please see: www.calstate.edu/impact.



S - Semester system
Q - Quarter system

- 1 **California State University, Bakersfield • Q**
9001 Stockdale Highway, Bakersfield, CA 93311-1099
(661) 654-3036 • www.csusb.edu
- 2 **California State University, Channel Islands • S**
One University Drive, Camarillo, CA 93012
(805) 437-8500 • www.csuci.edu
- 3 **California State University, Chico • S**
400 W. First Street, Chico, CA 95929-0722
(530) 898-6321 • www.csuchico.edu
- 4 **California State University, Dominguez Hills • S**
1000 East Victoria Street, Carson, CA 90747
(310) 243-3645 • www.csudh.edu
- 5 **California State University, East Bay • Q**
25800 Carlos Bee Blvd., Hayward, CA 94542-3035
(510) 885-2784 • www.csueastbay.edu
- 6 **California State University, Fresno • S**
5150 North Maple Avenue, Fresno, CA 93740-0057
(559) 278-2261 • www.csufresno.edu
- 7 **California State University, Fullerton • S**
800 N. State College Blvd., Fullerton, CA 92834-9480
(714) 278-2300 • www.fullerton.edu
- 8 **Humboldt State University • S**
1 Harpst Street, Arcata, CA 95521-4957
(707) 826-4402 • (866) 850-9556 • www.humboldt.edu

Visit the **California State University** website at www.calstate.edu to find out all relevant information about the 23 CSU campuses. The phone numbers listed are the main contact information for the campus office of admission.

- 9 **California State University, Long Beach • S**
1250 Bellflower Blvd., Long Beach, CA 90840-0106
(562) 985-5471 • www.csulb.edu
- 10 **California State University, Los Angeles • Q**
5151 State University Drive, Los Angeles, CA 90032-8530
(323) 343-3901 • www.calstatela.edu
- 11 **California Maritime Academy • S**
200 Maritime Academy Drive, Vallejo, CA 94590
(707) 654-1330 • www.csum.edu
- 12 **California State University, Monterey Bay • S**
100 Campus Center Drive, Seaside, CA 93955-8001
(831) 582-3738 • www.csumb.edu
- 13 **California State University, Northridge • S**
18111 Nordhoff Street, Northridge, CA 91330-8207
(818) 677-3700 • www.csun.edu
- 14 **California State Polytechnic University, Pomona • Q**
3801 West Temple Avenue, Pomona, CA 91768-4003
(909) 869-5299 • www.csupomona.edu
- 15 **California State University, Sacramento • S**
6000 J Street, Sacramento, CA 95819-6048
(916) 278-7766 • www.csus.edu
- 16 **California State University, San Bernardino • Q**
5500 University Parkway, San Bernardino, CA 92407-2397
(909) 537-5188 • www.csusb.edu
- 17 **San Diego State University • S**
5500 Campanile Drive, San Diego, CA 92182-7455
(619) 594-6336 • www.sdsu.edu
- 18 **San Francisco State University • S**
1600 Holloway Avenue, San Francisco, CA 94132-1722
(415) 338-1113 • www.sfsu.edu
- 19 **San José State University • S**
One Washington Square, San José, CA 95192-0016
(408) 283-7500 • www.sjsu.edu
- 20 **California Polytechnic State University, San Luis Obispo • Q**
San Luis Obispo, CA 93407
(805) 756-2311 • www.calpoly.edu
- 21 **California State University, San Marcos • S**
333 S. Twin Oaks Valley Road
San Marcos, CA 92096-0001
(760) 750-4848 • www.csusm.edu
- 22 **Sonoma State University • S**
1801 East Cotati Avenue, Rohnert Park, CA 94928
(707) 664-2778 • www.sonoma.edu
- 23 **California State University, Stanislaus • S**
One University Circle, Turlock, CA 95382
(209) 667-3070 • www.csustan.edu

**THE CALIFORNIA STATE UNIVERSITY
OFFICE OF THE CHANCELLOR**

Chancellor, CSU System.....Dr. Timothy P. White
 Executive Vice Chancellor and Chief Financial Officer.....Dr. Benjamin F. Quillian
 Executive Vice Chancellor and Chief Academic Officer.....Dr. Ephraim P. Smith
 Vice Chancellor, University Relations and Advancement.....Garrett P. Ashley
 Vice Chancellor, Human Resources.....Gail E. Brooks
 General Counsel.....Christine Helwick
 University Auditor.....Larry Mandel

**THE CALIFORNIA STATE UNIVERSITY
401 GOLDEN SHORE
LONG BEACH, CA 90802-4210
562-951-4000**

**TRUSTEES OF THE
CALIFORNIA STATE
UNIVERSITY**

EX OFFICIO TRUSTEES

The Honorable Edmund G. Brown, Jr.
Governor of California

The Honorable Gavin Newsom
Lieutenant Governor of California

The Honorable John Pérez
Speaker of the Assembly

The Honorable Tom Torlakson
State Superintendent of Public Instruction

Dr. Timothy P. White
Chancellor of The California State University

OFFICERS OF THE TRUSTEES

The Honorable Edmund G. Brown, Jr.
President

Bob Linscheid
Chair

Christine Helwick
Secretary

Dr. Benjamin F. Quillian
Treasurer

APPOINTED TRUSTEES

Appointments are for a term of eight years, except student, alumni, and faculty trustees whose terms are for two years. Terms expire in the year in parentheses. Names are listed alphabetically.

Roberta Achtenberg (2015)
 Bernadette Cheyne (2013)
 Rebecca Eisen (2020)
 Debra S. Farar (2014)
 Kenneth Fong (2013)
 Margaret Fortune (2016)
 Lupe Garcia (2020)
 Steven Glazer (2019)
 William Hauck (2017)
 Bob Linscheid (2012)
 Peter Mehas (2015)
 Henry Mendoza (2016)
 Lou Monville (2014)
 Hugo Morales (2020)
 Larry Norton (2020)
 Jillian Ruddell (2013)
 Glen Toney (2013)
 Cipriano Vargas (2014)

Correspondence with Trustees should be sent to:

c/o Trustees Secretariat
 The California State University
 401 Golden Shore
 Long Beach, CA 90802-4210

CAMPUSES OF THE CALIFORNIA STATE UNIVERSITY

California State University, Bakersfield
9001 Stockdale Highway
Bakersfield, CA 93311-1022
Dr. Horace Mitchell, President
661-654-2782
www.csub.edu

California State University, Channel Islands
One University Drive
Camarillo, CA 93012
Dr. Richard R. Rush, President
805-437-8400
www.csuci.edu

California State University, Chico
400 West First Street
Chico, CA 95929-0150
Dr. Paul J. Zingg, President
530-898-4636
www.csuchico.edu

California State University, Dominguez Hills
1000 East Victoria Street
Carson, CA 90747-0005
Dr. Willie J. Hagan, President
310-243-3301
www.csudh.edu

California State University, East Bay
25800 Carlos Bee Boulevard
Hayward, CA 94542
Dr. Leroy M. Morishita, President
510-885-3000
www.csueastbay.edu

California State University, Fresno
5241 North Maple Avenue
Fresno, CA 93740
Dr. Joseph I. Castro, President
559-278-4240
www.csufresno.edu

California State University, Fullerton
800 N. State College Boulevard
Fullerton, CA 92831-3599
Dr. Mildred García, President
657-278-2011
www.fullerton.edu

Humboldt State University
1 Harpst Street
Arcata, CA 95521-8299
Dr. Rollin C. Richmond, President
707-826-4402
www.humboldt.edu

California State University, Long Beach
1250 Bellflower Boulevard
Long Beach, CA 90840-0115
Dr. F. King Alexander, President
562-985-4111
www.csulb.edu

California State University, Los Angeles
5151 State University Drive
Los Angeles, CA 90032
Dr. William A. Covino, President
323-343-3000
www.calstatela.edu

The California Maritime Academy
200 Maritime Academy Drive
Vallejo, CA 94590-8181
Rear Admiral Thomas A. Cropper, President
707-654-1000
www.csum.edu

California State University, Monterey Bay
100 Campus Center
Seaside, CA 93955-8001
Dr. Eduardo M. Ochoa, President
831-582-3330
www.csumb.edu

California State University, Northridge

18111 Nordhoff Street
Northridge, CA 91330
Dr. Dianne F. Harrison, President
818-677-1200

www.csun.edu

California State Polytechnic University, Pomona

3801 W. Temple Avenue
Pomona, CA 91768
Dr. J. Michael Ortiz, President
909-869-7659

www.csupomona.edu

California State University, Sacramento

6000 J Street
Sacramento, CA 95819
Dr. Alexander Gonzalez, President
916-278-6011

www.csus.edu

California State University, San Bernardino

5500 University Parkway
San Bernardino, CA 92407-2393
Dr. Tomás D. Morales, President
909-537-5000

www.csusb.edu

San Diego State University

5500 Campanile Drive
San Diego, CA 92182
Dr. Elliot Hirshman, President
619-594-5200

www.sdsu.edu

San Francisco State University

1600 Holloway Avenue
San Francisco, CA 94132
Dr. Leslie E. Wong, President
415-338-1111

www.sfsu.edu

San Jose State University

One Washington Square
San Jose, CA 95192-0001
Dr. Mohammad H. Qayoumi, President
408-924-1000

www.sjsu.edu

*California Polytechnic State University,
San Luis Obispo*

One Grand Avenue
San Luis Obispo, CA 93407
Dr. Jeffrey Armstrong, President
805-756-1111

www.calpoly.edu

California State University, San Marcos

333 S. Twin Oaks Valley Road
San Marcos, CA 92096-0001
Dr. Karen S. Haynes, President
760-750-4000

www.csusm.edu

Sonoma State University

1801 East Cotati Avenue
Rohnert Park, CA 94928-3609
Dr. Ruben Amiñana, President
707-664-2880

www.sonoma.edu

California State University, Stanislaus

One University Circle
Turlock, CA 95382-0299
Dr. Joseph F. Sheley, President
209-667-3122

www.csustan.edu

PRIVACY RIGHTS OF STUDENTS IN EDUCATION RECORDS

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect the privacy of students concerning their records maintained by the campus. The statute and regulations govern access to certain student records maintained by the campus and the release of such records. The law provides that Cal Maritime must provide students access to most records directly related to them and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading, or otherwise inappropriate. The right to a hearing under this law does not include any right to challenge the appropriateness of a grade as determined by the instructor. The law generally requires that written consent of the student be received before releasing personally identifiable data about the student.

Cal Maritime has adopted a set of policies and procedures concerning implementation of the statute and the regulations. Copies of these policies and procedures may be obtained at the Student Records Office. Among the types of information included in the campus statement of policies and procedures are the following: 1) the types of student records and the information contained therein; 2) the official responsible for the maintenance of each type of record; 3) the location of access lists which indicate persons requesting or receiving information from the record; 4) policies for reviewing and expunging records; 5) the access rights of students; 6) the procedures for challenging the content of student records; 7) the cost that will be charged for reproducing copies of records; and 8) the right of the student to file a complaint with the Department of Education. An office and review board have been established by the Department to investigate and adjudicate violations and complaints. The office designated for this purpose is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5920

Cal Maritime is authorized under the Act to release 'directory information' concerning students. Directory information includes the student's name, address, telephone listing, electronic mail address, photograph, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, grade level, enrollment status, degrees, honors, and awards received, and the most recent previous educational agency or institution attended by the student. Directory information is subject to release by Cal Maritime at any time unless the campus has received a prior written objection from the student specifying information that the student requests not to be released. Written objections should be sent to the Provost and Vice President of Academic Affairs.

Cal Maritime is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons are those who have responsibilities in connection with the campus' academic, administrative, or service functions and who have reason for using student records connected with their campus or other related academic responsibilities. Disclosure may also be made to other persons or organizations under certain conditions (e.g., as part of the accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; or to other institutions to which the student is transferring).

NONDISCRIMINATION POLICY

RACE, COLOR, ETHNICITY, NATIONAL ORIGIN, AGE, RELIGION AND VETERAN STATUS

The California State University does not discriminate on the basis of race, color, ethnicity, national origin, age, religion or veteran status in its programs and activities, including admission and access. Federal and state laws, including Title VI of the Civil Rights Act of 1964 and the California Equity in Higher Education Act, prohibit such discrimination. The Executive Director of Human Resources has been designated the representative who will coordinate the efforts of Cal Maritime to comply with all applicable federal and state laws prohibiting discrimination on these bases. For inquiries concerning compliance, please call 707-654-1135.

DISABILITY

The California State University does not discriminate on the basis of disability in its programs and activities, including admission and access. Federal and state laws, including sections 504 and 508 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, prohibit such discrimination. The Director of Disability Services has been designated the representative who will coordinate the efforts of Cal Maritime to comply with all applicable federal and state laws prohibiting discrimination on the basis of disability. For inquiries concerning compliance, please call 707-654-1283 or visit: <http://www.csum.edu/web/faculty-and-staff/office-of-disability-services>

SEX/GENDER/GENDER IDENTITY/ SEXUAL ORIENTATION

The California State University does not discriminate on the basis of sex, gender, gender identity or sexual orientation in its programs and activities, including admission and access. Federal and state laws, including Title IX of the Education Amendments of 1972, prohibit such discrimination. The Executive Director of Human Resources has been designated the representative who will coordinate the efforts of Cal Maritime to comply with all applicable federal and state laws prohibiting discrimination on these bases. For inquiries concerning compliance, please call 707-654-1135.

The California State University is committed to providing equal opportunities to male and female CSU students in all campus programs, including intercollegiate athletics. Title IX of the Education Amendments of 1972 protects all people regardless of their gender or gender identity from sexual discrimination, which includes sexual harassment and violence:

- Sexual discrimination means an adverse act of sexual discrimination (including sexual harassment and sexual violence) that is perpetrated against an individual on a basis prohibited by Title IX of the Education Amendments of 1972, 20 U.S.C. §1681 et seq., and its implementing regulations, 34 C.F.R. Part 106 (Title IX); California Education Code §66250 et seq., and/or California Government Code §11135
- Sexual harassment is unwelcome conduct of a sexual nature that includes, but is not limited to, sexual violence, sexual advances, requests for sexual favors, indecent exposure and other verbal, nonverbal or physical unwelcome conduct of a sexual nature, where such conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the individual, and is in fact considered by the individual, as limiting the individual's ability to participate in or benefit from the services, activities or opportunities offered by the university. Sexual harassment also includes gender-based harassment, which may include acts of verbal, non-verbal or physical aggression, intimidation or hostility based on sex or sex-stereotyping, even if those acts do not involve conduct of a sexual nature
- Sexual violence means physical sexual acts (such as unwelcome sexual touching, sexual assault, sexual battery and rape) perpetrated against an individual without consent or against an individual who is incapable of giving consent due to that individual's use of drugs or alcohol, or disability

See further information in the Cal Maritime's sexual violence prevention and education statement at:

<http://www.csum.edu/web/police-services/clery>

WHOM TO CONTACT IF YOU HAVE COMPLAINTS, QUESTIONS OR CONCERNS

Title IX requires the university to designate a Title IX Coordinator to monitor and oversee overall Title IX compliance. Cal Maritime's Title IX Coordinator is available to explain and discuss: your right to file a criminal complaint (sexual assault and violence); the university's complaint process, including the investigation process; how confidentiality is handled; available resources, both on and off campus; and other related matters. If you are in the midst of an emergency, please call the police immediately by dialing 911.

Campus Title IX Coordinator:

Ingrid C. Williams, Ed.D.
Executive Director of Human Resources
200 Maritime Academy Drive
Vallejo, CA 94590-8181
iwilliams@csum.edu
707-654-1135

University Police

Chief Roseann Richard, Ed.D.
200 Maritime Academy Drive
Vallejo, CA 94590-8181
rrichard@csum.edu
707-654-1175

U.S. Department of Education, Office for Civil Rights:

800-421-3481 or **ocr@ed.gov**
If you wish to fill out a complaint form online with the OCR, you may do so at: **<http://www2.ed.gov/about/offices/list/ocr/docs/howto.html?src=rt>**

Title IX requires the university to adopt and publish complaint procedures that provide for prompt and equitable resolution of sex discrimination complaints, including sexual harassment and violence.

CSU Executive Order 1074 (**<http://www.calstate.edu/eo/EO-1074.pdf>**) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made by students against the CSU, a CSU employee, other CSU students, or a third party.

Except in the case of a privilege recognized under California law (examples of which include Evidence Code §§1014 (psychotherapist-patient); 1035.8 (sexual assault counselor-victim); and 1037.5 (domestic violence counselor-victim), any member of the university community who knows of or has reason to know of sexual discrimination allegations shall promptly inform the campus Title IX Coordinator.

Regardless of whether an alleged victim of sexual discrimination ultimately files a complaint, if the campus knows or has reason to know about possible sexual discrimination, harassment or violence, it must review the matter to determine if an investigation is warranted. The campus must then take appropriate steps to eliminate any sex discrimination/harassment, prevent its recurrence, and remedy its effects.

SAFETY OF THE CAMPUS COMMUNITY IS PRIMARY

Cal Maritime's primary concern is the safety of its campus community members. The use of alcohol or drugs never makes the victim at fault for sexual discrimination, harassment or violence; therefore, victims should not be deterred from reporting incidents of sexual violence out of a concern that they might be disciplined for related violations of drug, alcohol or other university policies. Except in extreme circumstances, victims of sexual violence shall not be subject to discipline for related violations of the Student Conduct Code.

INFORMATION REGARDING CAMPUS, CRIMINAL AND CIVIL CONSEQUENCES OF COMMITTING ACTS OF SEXUAL VIOLENCE

Individuals alleged to have committed sexual assault may face criminal prosecution by law enforcement and may incur penalties as a result of civil litigation. In addition, employees and students may face discipline at the university. Employees may face sanctions up to and including dismissal from employment, pursuant to established CSU policies and provisions of applicable collective bargaining unit agreements.

Students charged with sexual discrimination, harassment or violence will be subject to discipline, pursuant to the California State University Student Conduct Procedures (see Executive Order 1073 (<http://www.calstate.edu/eo/EO-1073.pdf>)) and will be subject to appropriate sanctions.

In addition, during any investigation, the university may implement interim measures in order to maintain a safe and non-discriminatory educational environment. Such measures may include immediate interim suspension from the university, required move from university-owned or affiliated housing, adjustment to course schedule, or prohibition from contact with parties involved in the alleged incident.

Additional Resources

- California Maritime Academy's sexual violence prevention and education at: <http://www.csum.edu/web/police-services/clery>
- U.S. Department of Education, Regional Office: Office for Civil Rights
50 Beale Street, Suite 7200
San Francisco, CA 94105
415-486-5555
TDD 877-521-2172
- U.S. Department of Education, National Office: Office for Civil Rights
800-872-5327
- Know Your Rights about Title IX: <http://www2.ed.gov/about/offices/list/ocr/docs/title-ix-rights-201104.html>
- California Coalition Against Sexual Assault; (<http://calcasa.org/>)
1215 K. Street, Suite 1850
Sacramento, CA 95814
916-446-2520
- Domestic and Family Violence, Office of Justice Programs, United States Department of Justice
- National Institute of Justice: Intimate Partner Violence, Office of Justice Programs, United States Department of Justice
- National Domestic Violence Hotline: 1-800-799-SAFE (7233)
- Office of Violence against Women, United States Department of Justice
- Centers for Disease Control and Prevention: Intimate Partner Violence
- Defending Childhood, United States Department of Justice
- Local Community Resource Information:
Rape Crisis Hotline: 707-258-8000
Mental Health Crisis Line: 707-553-5332
Victims of Crime Resources: 800-842-8467

STUDENT COMPLAINT PROCEDURE

The California State University takes very seriously complaints and concerns regarding the institution. If you have a complaint regarding the CSU, you may present your complaint as follows:

- If your complaint concerns CSU's compliance with academic program quality and accrediting standards, you may present your complaint to the Western Association of Schools and Colleges (WASC), the agency that accredits the CSU's academic program at: <http://www.wascsenior.org/comments>
- If your complaint concerns an alleged violation by CSU of a state law, including laws prohibiting fraud and false advertising, you may present your claim to the campus President or designee. The President or designee will provide guidance on the appropriate campus process for addressing your particular issue.

If you believe that your complaint warrants further attention after you have exhausted all the steps outlined by the president or designee, or by WASC, you may file an appeal with the Associate Vice Chancellor, Academic Affairs at the CSU Chancellor's Office. This procedure should not be construed to limit any right that you may have to take civil or criminal legal action to resolve your complaint.

DETERMINATION OF RESIDENCY FOR TUITION PURPOSES

University requirements for establishing residency for tuition purposes are independent from those of other types of residency, such as for tax purposes, or other state or institutional residency. These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student should pay university fees on an in-state or out-of-state basis. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residency Requirements. These laws governing residency for tuition purposes at the California State University are California Education Code sections 68000-68090, 68120-68134, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900-41916. This material can be viewed on the internet by accessing the California State University's website at: www.calstate.edu/GC/resources.shtml

Cal Maritime's Admissions office is responsible for determining the residency status of all new and returning students based on the application for admission, residency questionnaire, reclassification request form, and, as necessary, other evidence furnished by the student. A student who fails to submit adequate information to establish eligibility for resident classification will be classified as a nonresident.

Generally, establishing California residency for tuition purposes requires a combination of physical presence and intent to remain indefinitely. An adult who, at least one full year prior to the residency determination date for the term in which enrollment is contemplated, can demonstrate both physical presence in the state combined with evidence of intent to remain in California indefinitely may establish California residency for tuition purposes. A minor normally derives residency from the parent(s) with whom they presently reside or most recently resided.

Evidence demonstrating intent may vary from case to case but will include, and is not limited to, the absence of residential ties to any other state, California voter registration and voting in California elections, maintaining California vehicle registration and driver's license, maintaining active California bank accounts, filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting an apartment where permanent belongings are kept, maintaining active memberships in California professional or social organizations, and maintaining a permanent military address and home of record in California.

Nonresident students seeking reclassification are required to complete a supplemental questionnaire that includes questions concerning their financial dependence on parents or others who do not meet university requirements for classification as residents for tuition purposes. Financial independence is required, along with physical presence and intent, to be eligible for reclassification.

Non-citizens establish residency in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States.

Exceptions to the general residency requirements are contained in California Education Code sections 68070-68084 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41906-41906.5, and include, but are not limited to, members of the military and their dependents, certain credentialed employees of school districts, and most students who have attended three years of high school in California and have graduated or attained high school equivalency. Whether an exception applies to a particular student cannot be determined before the submission of an application for admission and, as necessary, additional supporting documentation. Because neither Cal Maritime nor the Chancellor’s Office staff may give advice on the application of these laws, applicants are strongly urged to review the material for themselves and consult with a legal advisor.

Residency determination dates are set each term. They are:

QUARTER TERM CAMPUSES		SEMESTER TERM CAMPUSES	
Fall	September 20	Fall	September 20
Winter	January 5	Spring	January 25
Spring	April 1	Summer	June 1
Summer	July 1		

CalState TEACH operates on a trimester system. The residency determination dates for CalState TEACH are as follows:

Fall	September 20
Spring	January 5
Summer	June 1

Students classified as nonresidents may appeal a final campus decision within 120 days of notification by the campus.

A campus residency classification appeal must be in writing and submitted to:

The California State University
Office of General Counsel
401 Golden Shore, 4th Floor
Long Beach, CA 90802-4210

The Office of General Counsel can either decide the appeal or send the matter back to the campus for further review. Students incorrectly classified as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is also subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations.

Resident students who become nonresidents or who no longer meet the criteria for an exception must immediately notify the admissions office. Changes may have been made in the rate of nonresident tuition and in the statutes and regulations governing residency for tuition purposes in California between the time this information is published and the relevant residency determination date. Students are urged to review the statutes and regulations listed above.

2012-13	AMOUNT	AVERAGE COST PER FTES	PERCENTAGE
STATE APPROPRIATION (GF) ¹	2,010,652,000	6,061	52.7%
NET TUITION FEE REVENUE ²	1,497,474,000	4,327	37.6%
OTHER FEES REVENUE ²	386,604,000	1,117	9.7%
TOTAL SUPPORT COST	\$3,894,730,000	\$11,506	100%

¹ Represents state GF appropriation in the Budget Act of 2012-13; GF is divisible by resident students only (331,716 FTES).

² Represents CSU Operating Fund, Tuition Fee and other fees revenue amounts (net of tuition fee discounts) submitted in campus August 2012-13 final budgets (adjusted for rollback to 2011-12 tuition fee rates). Revenues are divisible by resident and nonresident students (346,044 FTES).

AVERAGE SUPPORT COST PER FULL-TIME EQUIVALENT STUDENT AND SOURCES OF FUNDS

The total support cost per full-time equivalent student (FTES) includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of FTES. The total CSU 2012-13 budget amounts were: \$2,010,652,000 from state General Fund (GF) appropriations (not including capital outlay funding) and before adding \$51.4 million CalPERS retirement adjustment; \$1,497,474,000 from tuition fee revenues after rollback to 2011/12 tuition fee rates and after tuition fee discounts (forgone revenue); and \$386,604,000 from other fee revenues, for a total of \$3,894,730,000.

The targeted number of 2012-13 FTES is 331,716 resident and 14,328 non-resident students for a total of 346,044 FTES. The general fund appropriation is applicable to resident students only, whereas fee revenues are collected from resident and nonresident students. FTES is determined by dividing the total academic student load by 15 units per term (the figure used here to define a full-time student's academic load).

The 2012-13 average support cost per FTES based on general fund appropriation and net tuition fee revenue only is \$10,389 and when including all sources as indicated below is \$11,506, which includes all fee revenue in the CSU Operating Fund (e.g. tuition fees, application fees, and other campus mandatory fees). Of this amount, the average net tuition fee revenue per FTES is \$6,061.

The average CSU 2012-13 academic year, resident, undergraduate student basic tuition fee and other mandatory fees required to apply to, enroll in, or attend the university after rollback to 2011-12 tuition fee rates is \$6,602 (\$5,472 2011-12 academic year tuition fee plus 2012-13 \$1,130 average campus-based fees). However, the costs paid by individual students will vary depending on campus, program, and whether a student is part-time, full-time, resident, or nonresident.

IMPACTED PROGRAMS

The CSU designates programs as impacted when more applications from regularly eligible applicants are received in the initial filing period (October and November for fall terms, June for winter terms, August for spring terms, February for summer terms) than can be accommodated. Some programs are impacted at every campus at which they are offered; others are impacted only at a few campuses. Candidates for admission must meet all of the campus' specified supplementary admissions criteria if applying to an impacted program or campus.

The CSU will announce during the fall filing period those campuses or programs that are impacted. Detailed information on campus and programs impaction will be available at the following websites:

- www.csumentor.edu
- www.calstate.edu/impactioninfo.shtml
- www.calstate.edu/sas/impaction-campus-info.shtml

Each campus will communicate its supplementary admissions criteria for all impacted programs to high schools and community colleges in their service area, and will disseminate this information to the public through appropriate media. This information will also be published at each campus's individual website and made available online at www.calstate.edu.

Applicants must file applications for admission to impacted programs during the initial filing period. Applicants who wish to be considered in impacted programs at more than one campus should file an application at each campus for which they seek to be considered.

APPLICATION FILING PERIODS

(Not all campuses/programs are open for admissions to every term)

TERMS IN 2013-14	APPLICATIONS FIRST ACCEPTED	INITIAL FILING PERIOD	FILING PERIOD DURATION
Summer Semester or Quarter 2013	February 1, 2013	February 1-28, 2013	Each non-impacted campus accepts applications until capacities are reached.
(Some campuses do not admit students to Summer term.)			
Fall Semester or Quarter 2013	October 1, 2012	October 1- November 30, 2012	Many campuses limit undergraduate admissions in an enrollment category due to overall enrollment limits.
Winter Quarter 2014	June 1, 2013	June 1-30, 2013	If applying after the initial filing period, consult the campus admissions office for current information.
Spring Semester or Quarter 2014	August 1, 2013	August 1-31, 2013	Similar information is conveniently available at: http://www.csumentor.edu/filing_status/Default.asp

SUPPLEMENTARY ADMISSIONS CRITERIA

Each campus with impacted programs or admissions categories uses supplementary admissions criteria in screening applicants. Supplementary criteria may include rank-ordering of freshman applicants based on the CSU eligibility index, or rank-ordering of transfer applicants based on verification of AA-T or AS-T degree, the overall transfer grade point average (GPA), completion of specified prerequisite courses, and a combination of campus-developed criteria. Applicants for freshman admissions to impacted campuses or programs are required to submit scores on either the SAT or the ACT. For fall admissions, applicants should take tests as early as possible, but no later than November or December of the preceding year.

The supplementary admissions criteria used by the individual campuses to screen applicants are made available by the campuses to all applicants seeking admissions to impacted programs. Details regarding the supplemental admissions criteria are published at: www.calstate.edu/impactioninfo.shtml.

TRANSFER REQUIREMENTS

Students who have completed fewer than 60 transferable semester college units (fewer than 90 quarter units) are considered lower-division transfer students. Student who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper-division transfer students. Students who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet those admissions requirements. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses and accepted as such by the campus to which the applicant seeks admission.

LOWER DIVISION TRANSFER REQUIREMENTS

Generally, applicants will qualify for admission as a lower-division transfer student if they have a GPA of at least 2.0 (C) or higher in all transferable units attempted, are in good standing at the last college or university attended, and meet either of the following standards:

- Will meet the freshman admissions requirements (GPA and subject requirements) in effect for the term to which they are applying (see “Freshman Requirements” section)
- Were eligible as a freshman at the time of high school graduation except for missing subject requirements, and have been in continuous attendance in an accredited college since high school graduation, and have made up the missing subject requirements

Applicants who graduated from high school prior to 1988 should contact the office of admissions to inquire about alternative admissions programs.

MAKING UP MISSING COLLEGE PREPARATORY SUBJECT REQUIREMENTS

Lower-division applicants who did not complete subject requirements while in high school may make up missing subjects in any of the following ways:

- Complete appropriate courses with a C or higher in adult school or high school summer sessions
- Complete appropriate college courses with a C or higher. One college course of at least three semester or four quarter units will be considered equivalent to one year of high school study
- Earn acceptable scores on specified examinations

Please consult with any CSU admissions office for further information about alternative ways to satisfy the subject requirements. Due to enrollment pressures, many CSU campuses do not admit or enroll lower-division transfer students.

UPPER DIVISION TRANSFER REQUIREMENTS

Generally, applicants will qualify for admission as an upper-division transfer student if they meet both the following requirements:

- They have a GPA of at least 2.0 (C) or higher in all transferable units attempted
- They are in good standing at the last college or university attended; and they have completed at least 60 transferable semester units of college coursework with a GPA of 2.0 or higher and a grade of C or higher in each course used to meet the CSU general education requirements in written communication, oral communication, critical thinking and quantitative reasoning, e.g., mathematics. The 60 units must include all of the general education requirements in communication in the English language (both oral and written) and critical thinking (at least 9 semester units) and the requirement in mathematics/quantitative reasoning (usually 3 semester units)

OR

- The Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning

PROCEDURE FOR THE ESTABLISHMENT OR ABOLISHMENT OF CAMPUS-BASED MANDATORY FEES

The law governing the California State University provides that specific campus fees defined as mandatory, such as a *student body association fee* and a *student body center fee*, may be established.

A *student body association fee* must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 89300). The campus President may adjust the *student body association fee* only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose. The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus President containing the signatures of 10 percent of the regularly enrolled students at the university. *Student body association fees* support a variety of cultural and recreational programs, childcare centers, and special student support programs.

A *student body center fee* may be established only after a fee referendum is held which approves, by a two-thirds favorable vote, the establishment of the fee (Education Code, Section 89304). Once bonds are issued, authority to set and adjust *student body center fees* is governed by provisions of the State University Revenue Bond Act of 1947, including, but not limited to, Education Code sections 90012, 90027, and 90068.

The process to establish and adjust other campus-based mandatory fees requires consideration by the campus fee-advisory committee and a student referendum as established by [Executive Order 1054](#), Section III. The campus President may use alternate consultative mechanisms if the President determines that a referendum is not the best mechanism to achieve appropriate and meaningful consultation. Results of the referendum and the fee committee review are advisory to the campus President. The President may adjust campus-based mandatory fees but must request the Chancellor to establish a new mandatory fee. The President shall provide to the fee-advisory committee a report of all campus-based mandatory fees. The campus shall report annually to the Chancellor a complete inventory of all campus-based mandatory fees.

For more information or questions, please contact the Budget Office in the CSU Chancellor's Office at (562) 951-4560.

STUDENT CONDUCT

TITLE 5, CALIFORNIA CODE OF REGULATIONS, § 41301. STANDARDS FOR STUDENT CONDUCT

- **Campus Community Values.** Cal Maritime is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the campus community should choose behaviors that contribute toward this end. Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon them and their university, to be civil to one another and to others in the campus community, and contribute positively to student and university life
- **Grounds for Student Discipline.** Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences. The following are the grounds upon which student discipline can be based;
 - Dishonesty, including:
 - Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
 - Furnishing false information to a university official, faculty member, or campus office.
 - Forgery, alteration, or misuse of a university document, key, or identification instrument.
 - Misrepresenting one's self to be an authorized agent of the university or one of its auxiliaries.
 - Unauthorized entry into, presence in, use of, or misuse of university property.
 - Willful, material and substantial disruption or obstruction of university-related activity, or any on-campus activity.
 - Participating in an activity that substantially and materially disrupts the normal operations of the university, or infringes on the rights of members of the university community.
 - Willful, material and substantial obstruction of the free flow of pedestrian or other traffic, on or leading to campus property or an off-campus university-related activity.
 - Disorderly, lewd, indecent, or obscene behavior at a university-related activity, or directed toward a member of the university community.
 - Conduct that threatens or endangers the health or safety of any person within or related to the university community, including physical abuse, threats, intimidation, harassment, or sexual misconduct.

- Hazing, or conspiracy to haze. Hazing is defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury to any former, current, or prospective student of any school, community college, college, university or other educational institution in this state (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental harm, to any former, current, or prospective student of any school, community college, college, university or other educational institution. The term 'hazing' does not include customary athletic events or school sanctioned events. Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.
- Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and university regulations) or the misuse of legal pharmaceutical drugs.
- Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and university regulations), or public intoxication while on campus or at a university-related activity.
- Theft of property or services from the university community, or misappropriation of university resources.
- Unauthorized destruction, or damage to university property or other property in the university community.
- Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the campus President) on campus or at a university-related activity.
- Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
- Misuse of computer facilities or resources, including:
 - Unauthorized entry into a file, for any purpose.
 - Unauthorized transfer of a file.
 - Use of another's identification or password.
 - Use of computing facilities, campus network, or other resources to interfere with the work of another member of the university community.
 - Use of computing facilities and resources to send obscene or intimidating and abusive messages.
 - Use of computing facilities and resources to interfere with normal university operations.
 - Use of computing facilities and resources in violation of copyright laws.
 - Violation of the campus computer use policy.
- Violation of any published university policy, rule, regulation or presidential order.
- Failure to comply with directions of, or interference with, any university official or any public safety officer while acting in the performance of his/her duties.
- Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or well-being of members of the university community, to property within the university community or poses a significant threat of disruption or interference with university operations.

- Violation of the Student Conduct Procedures, including:
 - Falsification, distortion, or misrepresentation of information related to a student discipline matter.
 - Disruption or interference with the orderly progress of a student discipline proceeding.
 - Initiation of a student discipline proceeding in bad faith.
 - Attempting to discourage another from participating in a student discipline matter.
 - Attempting to influence the impartiality of any participant in a student discipline matter.
 - Verbal or physical harassment or intimidation of any participant in a student discipline matter.
 - Failure to comply with the sanction(s) imposed under a student disciplinary proceeding.
 - Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

- **Procedures for Enforcing This Code.** The Chancellor shall adopt procedures to ensure that students are afforded appropriate notice, and an opportunity to be heard, before the university imposes any sanction for a violation of the Student Conduct Code.

- **Application of This Code**

Sanctions for the conduct listed above can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. Conduct that threatens the safety or security of the campus community, or substantially disrupts the functions or operation of the university is within the jurisdiction of this Article regardless of whether it occurs on or off campus. Nothing in this Code may conflict with Education Code Section 66301 that prohibits disciplinary action against students based on behavior protected by the First Amendment.

- **Summary of Civil and Criminal Penalties for Violation of Federal Copyright Laws.**

Was referenced earlier in Student Conduct (15) (G) the penalties for copyright infringement include civil and criminal penalties. In general, anyone found liable for civil copyright infringement may be ordered to pay either actual damages or statutory damages affixed at not less than \$750 and not more than \$30,000 per work infringed. For willful infringement, a court may award up to \$150,000 per work infringed. A court can, at its discretion, also assess costs and attorneys' fees. For details, see Title 17, United States Code, Sections 504, 505. Willful copyright infringement can also result in criminal penalties, including imprisonment of up to five years and fines of up to \$250,000 per offense.



**Title 5, California Code of Regulations, § 41302.
Disposition of Fees; Campus Emergency; Interim
Suspension**

The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer sessions in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required from the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to ensure the maintenance of order.

A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

**AVAILABILITY OF INSTITUTIONAL AND
FINANCIAL ASSISTANCE INFORMATION**

The following information regarding student financial assistance may be obtained from the financial aid office, located in the Financial Aid / Career Center building, or by calling 707-654-1275:

- A description of the federal, state, institutional, local, and private student financial assistance programs available to students who enroll at Cal Maritime.
- For each aid program, a description of procedures and forms by which students apply for assistance, student eligibility requirements, criteria for selecting recipients from the group of eligible applicants, and criteria for determining the amount of a student's award.
- A description of the rights and responsibilities of students receiving financial assistance, including federal Title IV student assistance programs, and criteria for continued student eligibility under each program.
- The satisfactory academic progress standards that students must maintain for the purpose of receiving financial assistance, and criteria by which a student who has failed to maintain satisfactory progress may reestablish eligibility for financial assistance.
- The method by which financial assistance disbursements will be made to students, and the frequency of those disbursements.
- The terms of any loan received as part of the student's financial aid package, a sample loan repayment schedule, and the necessity for repaying loans.
- The general conditions and terms applicable to any employment provided as part of the student's financial aid package.
- The responsibility of Cal Maritime for providing and collecting exit-counseling information for all student borrowers under the federal student loan programs.
- The terms and conditions for deferral of loan payments for qualifying service under the Peace Corps Act, the Domestic Volunteer Service Act of 1973, or comparable volunteer community service.

Information regarding the cost of attending Cal Maritime including: tuition and fees; the estimated costs of books and supplies; estimates of typical student room, board, and transportation costs; and, if requested, additional costs for specific programs is available from the financial aid office.

Information regarding the refund policies at Cal Maritime for the return of unearned tuition and fees or other refundable portions of institutional charges is available from the cashier's office, located in the Administration building, or by calling 707-654-1030, option 6.

Information regarding policies related to the return of federal Title IV student-assistance funds as required by regulation is available from the financial aid office.

Information regarding special facilities and services available to students with disabilities may be obtained from the Center for Engagement, Teaching and Learning (CETL), located in the Laboratory building, or by calling 707-654-1283.

Information regarding Cal Maritime policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus may be obtained from Cal Maritime's Police Services department, located in the Continuing Education / Public Safety building by calling 707-654-1176, or at: <http://www.csum.edu/web/police-services/crime-reporting-procedures>

Information regarding Cal Maritime's annual campus security report may be obtained from Cal Maritime's Police Services department, or at: <http://www.csum.edu/web/police-services/clery>

Information regarding the prevention of drug and alcohol abuse and rehabilitation programs may be obtained at the Student Health Center, by calling 707-654-1174, and also from the office of the Dean of Students, located in the Student Center, or by calling 707-654-1182.

Information regarding student retention and graduation rates at Cal Maritime and, if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest may be obtained from the Registrar's office, located in the Faculty Office building, or by calling 707-654-1794.

Information regarding athletic opportunities available to male and female students, and regarding the financial resources and personnel that Cal Maritime dedicates to its men's and women's teams, may be obtained from the office of the Director of Athletics, located in the Gymnasium building, or by calling 707-654-1050.

Information concerning grievance procedures for students who feel aggrieved in their relationships with the university, its policies, practices and procedures, or its faculty and staff may be obtained from the human resources office, located in the Administration building, or by calling 707-654-1135.

SELECTIVE SERVICE SYSTEM REGISTRATION

The federal Military Selective Service Act (the "Act") requires most males residing in the United States to present themselves for registration with the Selective Service System within thirty days of their eighteenth birthday. Most males between the ages of 18 and 25 must be registered.

Males born after December 31, 1959, may be required to submit a statement of compliance with the Act and regulations in order to receive any grant, loan, or work assistance under specified provisions of existing federal law. In California, students subject to the Act who fail to register are also ineligible to receive any need-based student grants funded by the state or a public post-secondary institution.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to register them with the Selective Service System.

Information on the Selective Service System is available and the registration process may be initiated online at: <http://www.sss.gov>

THE CALIFORNIA STATE UNIVERSITY INTERNATIONAL PROGRAMS

Building international understanding and developing intercultural communication skills among its students is a vital mission of the California State University. Since its inception in 1963, the CSU's International Programs have contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. More than 15,000 CSU students have taken advantage of this unique study option.

International Programs' participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or special study center abroad. The International Programs serves the needs of students in over 100 designated academic majors. Affiliated with more than 70 recognized universities and institutions of higher education in 19 countries, the International Programs also offer a wide selection of study locales and learning environments.

AUSTRALIA

Griffith University
Macquarie University
Queensland University of Technology
University of Queensland
University of Western Sydney
Victoria University

CANADA

Concordia University (Montréal)

CHILE

Pontificia Universidad Católica de Chile (Santiago)

CHINA

Peking University (Beijing)
Shanghai Jiao Tong University (Shanghai)

DENMARK

Danish Institute for Study Abroad (international education affiliate of the University of Copenhagen)

FRANCE

Institut Catholique de Paris
Université d' Aix-Marseille (Aix-en-Provence)
Universités de Paris I, III, IV, VI, VII, VIII, X, XI, XII, XIII
Université Paris-Est Marne-La-Vallée
Université d'Evry Val d'Essonne
Université de Versailles-Saint-Quentin-en-Yvelines

GERMANY

University of Tübingen, and a number of institutions of higher education in the Federal state of Baden-Württemberg

GHANA

University of Ghana, Legon

ISRAEL

Tel Aviv University
The Hebrew University of Jerusalem
University of Haifa

ITALY

CSU Study Center (Florence)
Università degli Studi di Firenze
Accademia di Belle Arti Firenze

JAPAN

Waseda University (Tokyo)
University of Tsukuba

KOREA

Yonsei University (Seoul)

MEXICO

Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro

SOUTH AFRICA

Nelson Mandela Metropolitan University, Port Elizabeth

SPAIN

Universidad Complutense de Madrid
Universidad de Granada

SWEDEN

Uppsala University

TAIWAN

National Taiwan University (Taipei)

National Tsing Hua University (Hsinchu)

THE UNITED KINGDOM

Bradford University

Bristol University

Hull University

Kingston University

Swansea University

International Programs pays tuition and administrative costs abroad for participating California resident students to a similar extent that such funds would be expended to support similar costs in California. Participants are responsible for all CSU tuition and program fees, personal costs, such as transportation, room and board, and living expenses. Financial aid, with the exception of federal work-study, is available to qualified students.

To qualify for admission to the International Programs, in most programs students must have upper division or graduate standing at a CSU campus by the time of departure. Students at the sophomore level may, however, participate in the intensive language acquisition programs in Canada, China, France, Germany, Korea, Mexico, Sweden and Taiwan. California Community Colleges transfer students are eligible to apply directly from their community colleges. Students must also possess a current cumulative GPA of 2.75 or 3.0, depending on the program to which they apply. Some programs also have language study and/or other coursework prerequisites.

Additional information and application materials may be obtained on campus, or by writing to:

The California State University
International Programs
401 Golden Shore, 6th Floor
Long Beach, CA 90802-4210
www.calstate.edu/ip

ADMINISTRATIVE OFFICES

OFFICE OF THE PRESIDENT

President RADM Thomas A. Cropper
 President’s Confidential Assistant Lisa Raquel
 Director, University Affairs and Special Assistant Brigham Timpson

OFFICE OF THE PROVOST AND VICE PRESIDENT FOR ACADEMIC AFFAIRS

Interim Provost and Vice President for Academic Affairs Gary Reichard, PhD
 Director, ABS School of Maritime Policy and Management Donna Nincic, PhD
 Director, International Studies Donna Nincic, PhD
 Director, Academic Simulation Programs Capt. Samuel Pecota
 Director, Faculty Affairs Steven Browne
 Director, USCG Licensing Programs Michael Kazek
 WASC Coordinator Graham Benton, PhD

ACADEMIC DEAN

Academic Dean Nael Aly, PhD
 Chair, Culture and Communication Graham Benton, PhD
 Chair, Engineering Technology Robert Jackson
 Chair, Marine Transportation Peter Hayes, JD
 Chair, Maritime Policy and Management Donna Nincic, PhD
 Chair, Mechanical Engineering Nader Bagheri, PhD
 Chair and Officer-in-Charge, Naval Science LT Chad Mickelson
 Chair, Sciences and Mathematics Cynthia Trevisan, PhD

ADMISSIONS AND OUTREACH

Director Marc McGee
 Assistant Director Michael Tressel

FINANCIAL AID

Interim Director Howard Yamamoto

LIBRARY

Interim Dean Michele Van Hoeck

REGISTRAR’S OFFICE

Registrar Evelyn Andrews
 Associate Registrar Philip Stilson

SPONSORED PROJECTS AND EXTENDED LEARNING

Dean, Extended Learning James Burns, PhD
 Director, Sponsored Projects and Extended Learning Veronica Boe
 Director, Maritime Security CAPT Bruce Clark
 Program Manager, Maritime Security John Ostrander
 Director, Professional Simulation Programs Capt. Vic Schisler
 Graduate Program Coordinator Kathy Arnold

OFFICE OF THE VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

Interim Vice President for Administration and Finance and Chief Financial Officer Franz Lozano

CAL MARITIME BOOKSTORE

Manager Andre Jimenez

DINING SERVICES

Director Louis Bones
 Associate Director Mark Cosca

FACILITIES MANAGEMENT

Director, Facilities Operations William Brown
 University Planner Isidro Farias

FISCAL SERVICES AND BUDGET

Associate Vice President for Financial Services and Controller Ken Toet
 Budget Officer Vacant
 Accounting Manager Susan Foft
 Director, Procurement and Risk Management Vineeta Dhillon
 Senior Budget Analyst Sylvia Kipp

HUMAN RESOURCES

Executive Director Ingrid Williams, EdD

INFORMATION TECHNOLOGY

Chief Information Officer Jason Wenrick
 IT Manager Walter Abarca

POLICE SERVICES

Police Chief and Director of Public Safety Chief Roseann Richard, EdD
 Police Lieutenant Lieut. Steven Daggs

OFFICE OF MARINE PROGRAMS

Director, Marine Programs and Commanding Officer, *Training Ship GOLDEN BEAR* ... Capt. Harry Bolton
 Chief Engineer, Training Ship GOLDEN BEAR Chief William Davidson
 Chief Mate, Training Ship GOLDEN BEAR Dan Lintz
 Coordinator, Waterfront Operations Richard Muller

OFFICE OF THE VICE PRESIDENT FOR ADVANCEMENT

Vice President for Advancement and Executive Director CMAF.....	Beverly Byl
Director, Public Affairs and Communications	Robert King
Director, University Events	Chelsea McClain
Director, Annual Giving and Alumni Relations	Katherine Baird
Director, Advancement Services	Lisa Ziska-Marchand
Senior Development Officer	Melissa Cohea

OFFICE OF THE VICE PRESIDENT FOR STUDENT AFFAIRS

Vice President for Student Affairs	Stephen Kreta
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ATHLETICS

Director.....	Marvin Christopher
Associate Athletic Director	Patrick Hollister
Director, Sailing.....	Susan “Charlie” Arms
Sports Coordinator and Head Men’s Basketball Coach	Bryan Rooney
Aquatics Supervisor	Tina Marie Rossi

STUDENT DEVELOPMENT AND CAREER CENTER

Dean	James Dalske
Assistant Director (Sailing)	Deborah Bauer
Assistant Director (Shore)	Vacant
Judicial Officer	Roger Scranton

CENTER FOR ENGAGEMENT, TEACHING AND LEARNING (CETL)

Director.....	Vacant
Coordinator, Early Assessment Program	Elaine Kociolek
Coordinator, Community Engagement and Ambassador’s Club.....	JoEllen Myslik

DEAN OF STUDENTS

Dean of Students.....	Vacant
Director, Health and Wellness Center	Bruce Wilbur, MD
Director, Housing and Residential Life.....	Kate Kimble

ENTERPRISE SERVICES

Executive Director	Diane Rawicz
Conferences and Events	Elizabeth Ayers

OFFICE OF THE COMMANDANT OF CADETS

Commandant of Cadets.....	Vacant
Engine Company Commandant	Michael Walker
MPM Company Commandant	Palin Berkana-Wycoff
Deck Company Commandant	Vacant

FACULTY

ALLEN, TOM (1996)

Maritime Vocational Instructor III
Boatswain

ANDREWS, MICHAEL (1997)

Maritime Vocational Instructor IV
B.S., Marine Engineering Technology,
California Maritime Academy, 1976
Second Assistant Engineer, Steam, Motor, and Gas
Turbine Vessels, Unlimited Horsepower
Master Motor Vessels, 100 Ton

ARMS, SUSAN "CHARLIE" (1999)

Director, Sailing
M.S., Recreation, Parks & Tourism, San Francisco
State University, 2012
B.A., Recreation and Leisure Studies,
CSU Long Beach, 1987
Master Mariner, 50 GT Inland OUPV,
Near Coastal
US SAILING Keelboat Instructor Trainer
Level 1 Small Boat Instructor Trainer
Level 2 Performance Sailing Instructor
Powerboat Master Instructor Trainer

BACHKAR, KHALID (2010)

Assistant Professor
B.A., Business Administration,
Hassan II University, Morocco, 1999
M.A., Information Systems,
Shippensburg University, PA, 2005
Ph.D., Transportation and Logistics,
North Dakota State University, 2010

BAGHERI, NADER (1990)

Professor
Chair, Mechanical Engineering Department
B.S., Mechanical Engineering,
California State University, Fresno, 1981
M.S., Mechanical Engineering,
University of California, Davis, 1984
Ph.D., Mechanical Engineering,
University of California, Davis, 1989
Professional Engineer, California

BENTON, GRAHAM W. (2001)

Professor
Chair, Culture and Communication Department
WASC Coordinator

B.A., English Literature, Bates College,
Lewiston, ME, 1988
M.A., Literatures in English, Rutgers University,
New Brunswick, NJ, 1996
Ph.D., Literatures in English, Rutgers
University, New Brunswick, NJ, 2002

BROWN, ROBERT J. (2005)

Maritime Vocational Instructor II
B.S., Nautical Industrial Technology,
California Maritime Academy, 1986
Third Mate, Unlimited, Any Ocean
Master of Towing Vessels
1600-Ton Master, Any Ocean

BROWNE, STEVEN (2004)

Professor
Director, Faculty Affairs
B.A., Computer Studies,
Northwestern University, 1989
M.E.M., Engineering Management,
Northwestern University, 1997
Master Mariner, Unlimited, Any Ocean

CARMICHAEL, ELISABETH (2010)

Lecturer
B.A., English, Texas Christian University, 1981
M.A., English, University of Maryland, 1986
Ph.D., English, University of Maryland, 1991

CHISHOLM, JULIANNE K. (2004)

Associate Professor
B.A., English, St. Mary's College of California, 1991
M.A., English, University of California, Davis, 1994
Diploma of Hispanic Studies,
Universidad de Barcelona, 1997
Ph.D., Literature & Creative Writing,
University of Houston, 2002

COLEMAN, DAVID W. (1999)

Maritime Vocational Lecturer
 B.S., Nautical Industrial Technology,
 California Maritime Academy, 1986
 M.A., Higher Educational Leadership and Policy
 Studies, CSU Sacramento, 2010
 Second Mate, Unlimited, Any Ocean
 Master of Towing Vessels
 1600-Ton Master, Any Ocean

COOK, LYLE (1991)

Maritime Vocational Instructor IV
 Chief Engineer, Steam, Motor, and Gas Turbine
 Vessels, Unlimited Horsepower

DEWEY, COLIN D. (2013)

Assistant Professor
 B.A., English, University of California, Berkeley, 2003
 M.A., English, Cornell University, 2008
 Ph.D., English, Cornell University, 2011
 Mate, Steam and Motor Vessels, 1600 Gross Tons
 Able Bodied Seaman, Unlimited

DUDLEY, RYAN (2006)

Assistant Professor
 B.S., Political Science, Santa Clara University,
 1997
 Ph.D., Political Science, University of California, Davis,
 2009

DUDMAN, MATTHEW (2007)

Lecturer
 A.B., International Relations (Minor in French),
 University of California, Davis, 1990
 M.B.A., University of California Davis Graduate School
 of Management, Davis, CA, 1993
 J.D., Tulane Law School, New Orleans, LA, 1996
 LL.M., Taxation, Golden Gate University,
 San Francisco, CA, 2000

ELLIOTT, BRITT T. (1996)

Maritime Vocational Instructor IV
 B.S., Nautical Industrial Technology, California Maritime
 Academy, 1981
 B.S., Economics, CSU Sacramento, 1989
 Third Mate, Unlimited, Any Ocean
 Master of Towing Vessels, Designated T.O.A.R.
 Assessor
 1600-Ton Master, Any Ocean

FAIRBANKS, MATTHEW (2011)

Lecturer
 B.A., Physics, Oberlin College, 2003
 M.S., Physics, University of Oregon, 2007
 Ph.D., Physics, University of Oregon, 2010

FISCHER, JONATHAN (2006)

Associate Professor
 B.S., Biomechanics Engineering, University of
 Pittsburgh, PA, 2002
 B.A., History of Science, University of Pittsburgh, PA,
 2002
 M.S., Mechanical Engineering, UC Berkeley, 2004

FRICK, CHRIS (2005)

Lecturer
 B.A., English, Colorado College, Colorado Springs, CO,
 1995
 M.A., Literature, New Mexico State University, Las
 Cruces, NM, 1997
 Ph.D., 19th-Century British Literature, University of
 South Carolina, Columbia, SC, 2003

GORDON, ZACHARY (2012)

Lecturer
 B.A., English and Philosophy, University of California,
 Berkeley, 2001
 M.A., English, University of California, Berkeley, 2006
 Ph.D., English, University of California, Berkeley, 2011

GREEN, SCOTT (1997)

Maritime Vocational Instructor II

B.S., Marine Engineering Technology, California
Maritime Academy, 1986

Third Assistant Engineer, Steam, Motor, and Gas
Turbine Vessels, Unlimited Horsepower

USCG Train-the-Trainer Certification

Engine Room Resource/Crew Resource
Management Certification, Oxford Aviation
Academy

GUO, LINDA (2003)

Lecturer

B.A., French, Beijing Second Foreign Language
Institute, Beijing, China, 1982

M.A., French, Arizona State University, Tempe, AZ,
1992

GUTIERREZ, JIM (2001)

Professor

B.S., Mechanical Engineering, California State
University, Sacramento, 1985

M.S., Engineering, University of California, Davis, 1991

Ph.D., Engineering, University of California, Davis,
1998

Professional Engineer, Mechanical and Civil, California

GUTKINA, OLGA (2012)

Lecturer

B.S., Mathematics and Physics, Vitebsk, Belarus
(USSR), 2005

M.A., Mathematics, San Francisco State University,
2011

HANSON, MARGOT (2013)

Sr. Assistant Librarian

B.A., English, University of California, Berkeley, 2003

M.L.I.S., Library and Information Science,
University of Hawaii at Manoa, 2007

HASSON-SNELL, ANTONY (2001)

Professor

B.S., Mechanical Engineering, University College,
London, 1983

M.S., Marine Mechanical Engineering, University
College, London, 1984

Ph.D., Aerospace Engineering, University of
Minnesota, 1991

HAYES, PETER J. (2001)

Professor

Chair, Marine Transportation Department

B.S., Marine Transportation, Texas A&M University at
Galveston, 1988

M.A., Public and Private Management, University of
Houston, Clear Lake, 1999

J.D., Concord Law School, 2007

Master Mariner, Unlimited, Any Ocean

HENSLEY, MARK P. (2004)

Maritime Vocational Lecturer

B.S., Nautical Science, U.S. Merchant Marine Academy,
1970

Master Mariner, Unlimited, Any Ocean

Master Mariner, Auxiliary Sail Vessels, Limited Tonnage

First Class Pilot, Hinchinbrook Entrance to Rock Point,
AK

HITCHCOCK, STANLEY (2010)

Maritime Vocational Lecturer

A.A., General Studies, Napa Valley College, 1982

B.S., Organizational Behavior, University of San
Francisco, 1989

Journeyman Machinist

HOLDEN, MICHAEL (2007)

Associate Professor

B.S., Aeronautical and Mechanical Engineering, English
Minor, University of California, Davis, 1992

M.S., Aeronautics and Astronautics, Stanford
University, 1994

Ph.D., Aeronautics and Astronautics, Stanford
University, 1999

INOUE, TAIYO (2009)

Assistant Professor

B.S., Mathematics, University of California, Davis,
2000Ph.D., Mathematics, University of California, Berkeley,
2007**JACKSON, ROBERT (2000)**

Maritime Vocational Instructor IV

Chair, Engineering Technology Department

B.S., Marine Engineering, California Maritime
Academy, 1976Chief Engineer, Steam, Motor, and Gas Turbine
Vessels, Unlimited Horsepower**JOHNSON, TRACEY (2013)**B.S., Physics and Mathematics, California State
University, Chico, 1988

M.S., Physics, University of California, Davis, 1996

KAMDAR, NIPOLI (2010)

Associate Professor

B.A., Economics and Statistics, St. Xavier's College,
Bombay University, India, 1985

M.A., Economics, Syracuse University, 1992

Ph.D., Economics, Syracuse University, 1993

KAZEK, MICHAEL S. (2008)

Lecturer

Director, USCG Licensing Programs

B.S., Marine Engineering, U.S. Coast Guard Academy,
1984M.S.E., Naval Architecture and Marine Engineering,
University of Michigan, 1986M.S.E., Mechanical Engineering, University of
Michigan, 1986**KLAPSTEIN, KEVIN (2012)**

Lecturer

B.S., Physics, University of Alberta, 1988

M.S., Theoretical Physics, University of Alberta, 1994

Ph.D., Biomathematics, University of California,
Los Angeles, 2004**LEWIS, TONY C. (2013)**

Assistant Professor

B.A., Political Science, University of Minnesota-Duluth,
2003M.B.A., Business Administration, University of
Minnesota-Duluth, 2007Ph.D., Management, University of Wisconsin-
Milwaukee, 2013**LEYDA, PAUL R. (1992)**

Professor

B.S., Nautical Science, California Maritime Academy,
1975M.S., Maritime Management, Maine Maritime
Academy, 1989

Master Mariner, Unlimited, Any Ocean

LYNCH, SHARON (2004)

Lecturer

B.S. Biology, Brooklyn College, 1994

Ph.D. Molecular Biology, City University of New York-
Graduate School and University Center, 1998**MANCILLA, TERRANCE (2009)**

Assistant Professor

A.S., Electronics Technology, College of Marin,
1970B.S., Electrical Engineering,
San Francisco State University, 1972M.S., Engineering Science,
University of California, Berkeley, 1976Renewable Energy Certificate, Stanford University
ElectroMechanical Machinery Certificate,
Auburn UniversityFCC General Radio Telephone Maintenance
LicenseGround Radio Maintenance School, U.S. Air Force
Metrology Instrumentation School, Hewlett Packard
Company

MANHEIMER, ROBERT (2007)

Lecturer

B.A., Spanish Literature and Political Science,
University of California, San Diego, 1985

M.A., Teaching English to Speakers of Other
Languages (TESL), University of Hawaii,
1992

MAROCCHINO, KATHRYN (1990)

Professor

B.A., Languages and Business Administration,
Santorre di Santarosa Technical Institute,
Turin, Italy, 1972

Doctorate, Modern Foreign Languages and
Literature, University of Turin, 1979

Fellow in Thanatology: Death, Dying and
Bereavement, 2005

MCGROARTY, PETER G. (1997)

Maritime Vocational Instructor III

Master Home Trade, Unlimited Tonnage, United
Kingdom, 1980

MEREDITH, DIANNE (2012)

Assistant Professor

B.A., Geography, University of California,
Berkeley, 1995

M.A., Geography, University of California,
Davis, 1997

Ph.D., Geography, University of California,
Davis, 2003

MESSER-BOOKMAN, TUULI (1996)

Professor

B.S., Marine Transportation,
U.S. Merchant Marine Academy, 1986

J.D., University of San Francisco,
School of Law, 1995

Master Mariner, Unlimited, Any Ocean

METZ, JENNIFER (2008)

Lecturer

B.A., History, California State University, Sacramento,
2004

M.A., History, University of California, Davis, 2007

MICKELSON, CHAD, LT, USN (2012)

Officer In Charge

Chair, Naval Science Department

B.S., Maritime Operations and Technology, United
States Merchant Marine Academy, 2003

MORRIS, PATRICK (2011)

Maritime Vocational Lecturer

B.S., Marine Engineering, California Maritime
Academy, 1974

Chief Engineer, Steam, Motor, and Gas Turbine
Vessels, Unlimited Horsepower

NEUMANN, ROBERT (2006)

Lecturer

B.F.A., History of Art/Asian Studies, Ohio State
University, 1972

M.A.Ed., California State University, Sonoma, 1980

M.B.A., International Management, Golden Gate
University, 1985

NINCIC, DONNA (2001)

Professor

Director, ABS School of Maritime Policy and
Management

Director, International Studies

B.A., International Relations, Carleton College,
Northfield, MN, 1981

M.A., International Relations, New York University, NY,
1985

M.A., Economics, New York University, NY, 1988

Ph.D., Political Science, New York University, NY,
1995

NORDENHOLZ, THOMAS R. (1998)

Professor

B.S., Mechanical Engineering, State University of
New York at Buffalo, 1990

M.S., Mechanical Engineering, UC Berkeley, 1995

Ph.D, Mechanical Engineering, UC Berkeley, 1998

O'BRIEN, DOUGLAS (2002)

Lecturer

B.S., Biology, San Diego State University, 1987

B.S., Public Health, Drew University of Medicine
and Science, 1994

Physician Assistant Certification

PAN, SELINA (2013)

Lecturer

B.S.E., Aerospace Engineering, University of
Michigan

M.S., Mechanical Engineering, University of
California, Berkeley

PARKER, ALEXANDER E. (2013)

Assistant Professor

B.A., Biology, University of Colorado, 1995

Ph.D., Oceanography, University of Delaware,
2004

PARSONS, AMY C. (2013)

Assistant Professor

B.A., English, Sonoma State University, 1995

M.A., English, University of California, Irvine,
1999

Ph.D., English, University of California, Irvine,
2007

PECOTA, SAMUEL R. (2004)

Professor

Director, Simulation

B.S., Nautical Science, U.S. Merchant Marine
Academy, 1980

M.A., Transportation Management, American Military
University, 2005

Master Mariner, Unlimited, Any Ocean

PINISETTY, DINESH (2013)

Assistant Professor

B.Tech., Mechanical Engineering, Jawaharlal
Nehru Technological University, India, 2002

M.S., Mechanical Engineering,
Louisiana State University, Baton Rouge, 2005

Ph.D., Mechanical Engineering,
Louisiana State University, Baton Rouge, 2011

POHLMANN, BRENT G. (2009)

Assistant Professor

B.A., Mathematics, Western State College of
Colorado, 1994

Teaching Credential, San Francisco State University,
1998

M.A., Mathematics, San Diego State University, 2002

Ph.D., Mathematics, University of Colorado,
Boulder, 2008

PORTOLOS, HARRY (2006)

Lecturer

A.S., Shipbuilding, Solano Community College, CA,
1990

B.S., Management, John F. Kennedy University,
Orinda, CA, 2001

M.B.A., Leadership, John F. Kennedy University,
Orinda, CA, 2001

POWELL, SCOTT M. (2009)

Assistant Professor

A.A.S., Marine Technology, Great Lakes Maritime
Academy/Northwestern Michigan College, 1998

B.S., Business Administration, Ferris State University,
2003

M.S., International Transportation Management,
SUNY Maritime College, 2008

Master Mariner, Unlimited, Near Coastal

Master Mariner, 1600 Tons, Any Ocean

Second Mate, Unlimited, Any Ocean

First Class Pilot, between Duluth, Gary, Buffalo, and
between Port Weller and Cape Vincent

PUNGLIA, JAYA (1993)

Professor

M.S., Physics, Vikram University, Ujjain, India, 1964
Ph.D., Physics, University of London, 1972

RIGG, DOUGLAS (2011)

Maritime Vocational Lecturer

B.S., Marine Engineering, California Maritime Academy, 1979
Chief Engineer, Steam, Motor, and Gas Turbine Vessels, Unlimited Horsepower

RODGERS, JOHN P. (2010)

Maritime Vocational Instructor II

B.S., Marine Engineering, Texas A&M, Texas Maritime Academy, 1973
B.S., Naval Architecture, University of Michigan, 1976
Chief Engineer, Steam, Motor, and Gas Turbine Vessels, Unlimited Horsepower

RUNYON, STEVEN T. (2010)

Assistant Professor

Chemistry Program Director

B.A., Molecular and Cell Biology, University of California, Berkeley, 1993
Ph.D., Chemistry, University of California, Santa Cruz, 2001

SAARHEIM, SCOTT (2000)

Maritime Vocational Instructor II

B.S., Marine Transportation, California Maritime Academy, 1991
Third Mate, Unlimited, Any Ocean

SCHLACHTER, JACOB, LT, USN (2013)

Admin. Officer/Instructor

B.S., Mechanical Engineering, United States Naval Academy, 2009

SCHMID, WILLIAM E. (2000)

Maritime Vocational Instructor IV

B.S., Nautical Science, Maine Maritime Academy, 1978
Master Mariner, Unlimited, Any Ocean
First Class Pilot, Hinchinbrook Entrance to Rocky Point, AK

STEWART, ROBERT (1982)

Professor

B.S., Marine Transportation, U.S. Merchant Marine Academy, 1975
M.P.A., CSU Hayward, 1988
D.P.A., Public Administration, Golden Gate University, 1997
Master Mariner, Unlimited, Any Ocean

STRANGE, MICHAEL (2008)

Assistant Professor

B.S., Mechanical Engineering, San Diego State University, 1984
M.S., Mechanical Engineering, Stanford University, 1986

STRICKLAND, JOANNE (2005)

Lecturer

B.S., Mechanical Engineering, University of Virginia, 1984
M.S., Computer Information Systems, University of Phoenix, 2004

TREVISAN, CYNTHIA S. (2008)

Associate Professor

Chair, Sciences and Mathematics Department

M.S., Physics, Universidad de Buenos Aires, Argentina, 1994
Ph.D., Physics, University of London, University College London, United Kingdom, 2002

TSAI, WILLIAM (2013)

Assistant Professor

B.S., Mechanical Engineering, University of California, Berkeley, 2003

M.S., Mechanical Engineering, University of California, Berkeley, 2006

Ph.D., Mechanical Engineering, University of California, Berkeley, 2009

 VAN HOECK, MICHELE (2009)

Sr. Assistant Librarian

B.S., Electrical Engineering, Cornell University, 1987

M.L.I.S., Library and Information Science, University of California, Berkeley, 1993

M.A., English, Sonoma State University, 2004

 WARD, JEFFREY S. (2002)

Head Athletic Trainer

B.A., San Diego State University, 1995 ATC, PTA

M.A., Kinesiology, St. Mary's College of California, 2006

 WEINSTOCK, DANIEL (1996)

Professor

B.S., Nautical Industrial Technology, California Maritime Academy, 1984

M.S., Education, Dowling College, 1995

Master Mariner, Unlimited, Any Ocean

 YIP, FRANK (2012)

Assistant Professor

A.B., Chemistry, Princeton University, 2002

M.S., Chemistry, University of California, Berkeley, 2004

Ph.D., Theoretical Chemistry, University of California, Berkeley, 2008

 PROFESSOR EMERITI

Buckley, James - Marine Transportation

Christodoulou, George - Engineering Technology

Kitazono, Lloyd - Sciences and Mathematics

Law, Brian - Marine Transportation

Mampaey, Carl - Sciences and Mathematics

McLemore, Albert S. - Engineering Technology

Paine-Clemes, Bunny - Culture and Communication

Pronchick, Stephen - Mechanical Engineering

Sears, David - Marine Transportation

Viargues, A. René - Culture and Communication

Wheeler, James - Sciences and Mathematics



California Maritime Academy
 200 Maritime Academy Drive | Vallejo, CA 94590-8181
 (707) 654-1000 | (707) 654-1001 (fax) | www.csum.edu

